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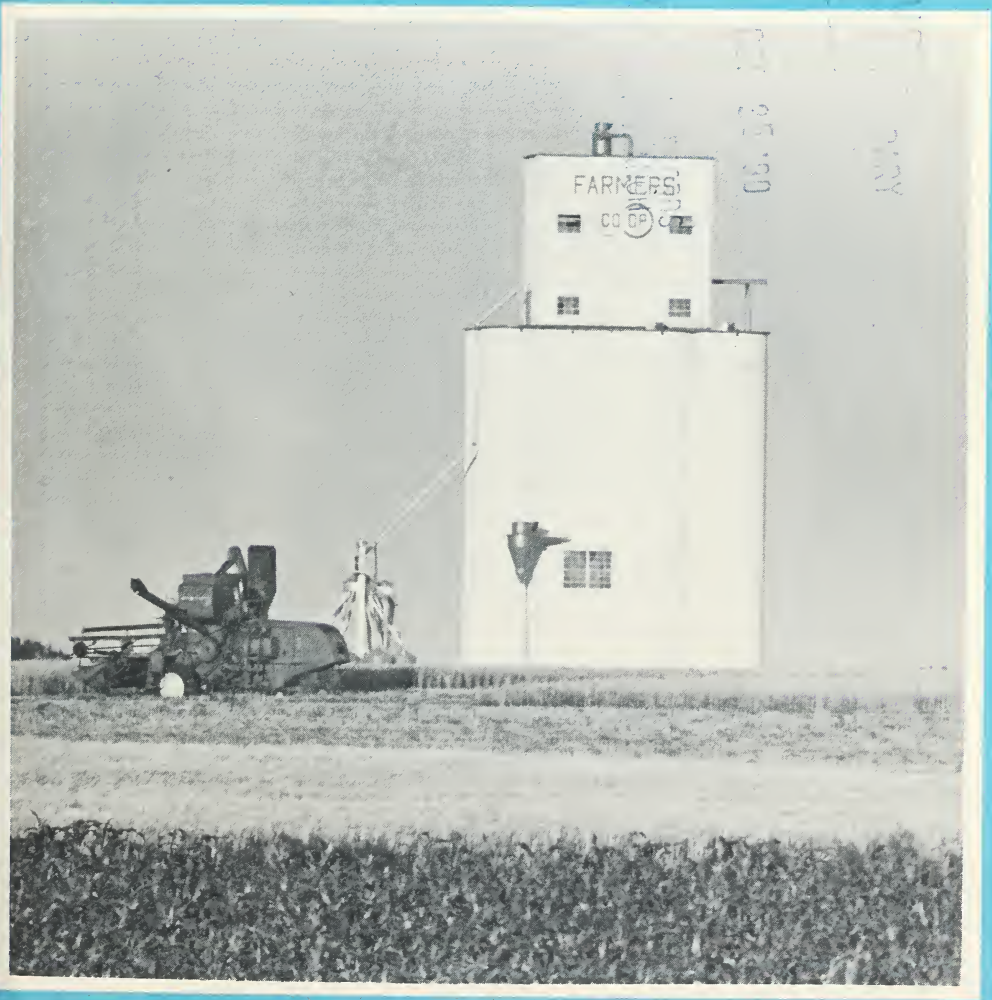
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# Farmer Cooperative Statistics 1981



FARMER COOPERATIVES IN THE UNITED STATES  
COOPERATIVE INFORMATION REPORT 1  
SECTION 27

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL COOPERATIVE SERVICE



## **Abstract**

**FARMER COOPERATIVE STATISTICS, 1981** by Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Frances E. Mahan, Elizabeth J. Simmons, and John W. Stutzman, Cooperative Management Division, Agricultural Cooperative Service, U.S. Department of Agriculture, Cooperative Information Report 1, Section 27 March 1983.

A survey of U.S. farmer cooperatives for calendar year 1981 showed a continuing upward trend in total business volume but a continuing decline in number of organizations and memberships. Total gross business and total net business volume are reported for 6,211 cooperatives. Business volume, number of cooperatives, and cooperative memberships are reported by commodity and State for cooperatives classified as marketing, farm supply, and related service. A 10-year comparison shows changes in business volume, market share, and numbers. Data on balance sheet and net margins, number of full-time employees, and selected activities of other service organizations also are presented.

**Key words:** cooperatives, statistics, business volume, memberships, balance sheet, net margins, full-time employees.

## Preface

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. Many people use these statistics for various purposes such as research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics are authorized by the Cooperative Marketing Act of 1926.

This report provides detailed information on the number, membership, and business volume of farmer cooperatives classified by commodity and functional type. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes of cooperatives are shown.

Basic information is provided on the balance sheet and net margins of farmer cooperatives, and for the first time since 1957, number of full-time employees by principal product marketed and major functional type.

Data are collected from individual farmer cooperatives by mail survey of organizations identified by Agricultural Cooperative Service (ACS), as meeting the requirements of the ACS definition of a farmer cooperative.

A stratified random sample of a large proportion of farmer cooperatives is used to reduce the work of collecting and assembling data and to enable more timely publishing of statistics.

ACS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time and effort taken to provide information and the rapidity with which it is furnished are greatly appreciated.

Readers wishing earlier statistics on farmer cooperatives by U.S. dollar volume totals for detailed farm products marketed and farm supplies handled, beginning in 1950-51, may send their requests to: Agricultural Cooperative Service, U.S. Department of Agriculture, 201 14th St., S.W., Room 3300, Auditor's Building, Washington, D.C. 20250.



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## Highlights

The 1981 survey of marketing, farm supply, and related service cooperatives showed a continuing upward trend in business volume but a decrease in number of memberships and organizations.

Total gross business volume (including intercooperative business) handled by cooperatives amounted to \$101.5 billion. This was an increase of 9.7 percent from the \$92.5 billion reported in the previous year.

Total net business, excluding business done between cooperatives, amounted to \$71.5 billion, up 8 percent from the \$66.3 billion in 1980.

The total number of farmer cooperatives dropped from 6,293 in 1980 to 6,211, a net decrease of 82 associations. Each year, new cooperatives are formed and others disappear as they go out of business due to consolidation, merger, acquisition, or unsuccessful operations.

Cooperative memberships of 5,378,888 in 1980 dropped to 5,335,418, a decrease of less than 1 percent.

The gross value of farm products marketed by cooperatives amounted to \$70.2 billion in 1981, an increase of 10.2 percent from the gross volume of \$63.7 billion for 1980. The net value of these farm products, after eliminating duplication resulting from intercooperative business, amounted to \$53.3 billion, an 8.9-percent increase over the \$48.9 billion marketing net for the previous year.

The gross value of farm supplies handled by farmer cooperatives amounted to \$30.1 billion in 1981, increasing 8.9 percent above the \$27.7 billion in 1980. The net value of these supplies, after intercooperative business was eliminated, amounted to \$17.1 billion, 5.7 percent above the \$16.1 billion in 1980.

Receipts for services related to marketing farm products and handling farm supplies amounted to \$1.2 billion for both 1980 and 1981.

Iowa was the leading State in combined marketing, farm supply, and related service volume, with nearly \$7.5 billion—10.5 percent of total net business; California was second with \$5.9 billion—8.3 percent of the total; and Minnesota ranked third with nearly \$5.5 billion—7.6 percent of the total.



Minnesota had the most cooperatives with 722, North Dakota was second with 422, and Wisconsin was third with 412.

Combined assets for all farmer cooperatives totaled \$28.8 billion, down 2 percent from the \$29.4 billion for 1980. Net assets, after eliminating intercooperative investments, were \$26.3 billion in 1981, compared with \$26.9 billion in 1980—a 2.5-percent decrease.

Total liabilities were \$17.9 billion in 1981—down 4.8 percent from \$18.8 billion reported in 1980.

Net worth, or member and patron equity, increased 3.1 percent from \$10.6 to \$10.9 billion. Member and patron equity financed 37.9 percent of total assets in 1981, up from 36 percent in 1980.

Farmer cooperatives' net margins were more than \$1.4 billion, a 25.9-percent decrease from the \$1.9 billion in 1980. The \$1.4 billion included intercooperative dividends and refunds of \$558 million—up 3.1 percent from \$541 million in 1980.

Farmer cooperatives employed 204,000 full-time employees. Marketing cooperatives had 122,000 full-time employees. Dairy cooperatives (39,000) and grain cooperatives (33,000) together employed more than half (59 percent) of the persons employed by marketing cooperatives. Farm supply cooperatives accounted for 80,000 employees, while cooperatives performing related services only employed about 1,000 full-time personnel.



# Farmer Cooperative Statistics 1981

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## Definition of a Farmer Cooperative

For inclusion in the annual survey, a cooperative is defined as one that meets the following requirements:

(1) Farmers or agricultural producers hold the controlling interest in the cooperative; (2) no member of the cooperative is allowed more than one vote because of the amount of stock or membership capital owned *or* the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; and (3) the cooperative does not deal in products of nonmembers in an amount greater in value than it handles for its members.

This definition may result in showing a larger number of farmer cooperatives than found in lists or directories of State agencies or cooperative councils because many State cooperative statutes require both one member, one vote, and a limit on dividends on stock or membership capital. Another reason for differences in the count or number of cooperatives is that cooperatives may operate in a specific State for a considerable period of time before they are included in the national survey. This may be due to one of the following reasons: (1) Agricultural Cooperative Service (ACS) may not learn of the existence of the cooperative immediately; (2) the cooperative may not have completed and returned the initial questionnaire; or (3) no notification is received of a cooperative that quits operating.

Readers who wish to make comparisons from year to year in specific commodity groups, therefore, should keep in mind the differences in lists and classifications in State and Federal data. For example, State agencies frequently publish directories that include credit, electric, insurance, and other types of service cooperatives not directly related to marketing farm products or purchasing production supplies.

## Classification of Cooperatives

Statistics are presented according to a cooperative's major function, or classification, such as marketing, farm supply, and related service cooperatives. These classifications are defined as follows:

*Marketing* cooperatives are associations whose primary business is marketing farm products for members—that is, more than 50 percent of total dollar volume was derived from the sale of members' farm products. Marketing cooperatives are further classified according to which major commodity of 13 classifications is predominant (in terms of dollar volume) in each association's business. If a cooperative consistently indicates it is handling a larger volume of a commodity than the one it was originally organized to handle, and which provided the basis for its initial classification, it is reclassified by the commodity currently representing the predominant product in its business volume.

Cooperatives first furnished data by individual commodities handled and services performed in the 1950-51 survey.<sup>1</sup> Cooperatives operating on a multistate basis were asked to furnish information on memberships and business volumes for the individual States they served. Before that time, all memberships and business were credited to the States in which each association maintained its headquarters.

*Farm supply* cooperatives are those whose farm supply business accounted for more than 50 percent of total dollar volume.

Farm supply cooperatives include those handling all types of farm production supplies and equipment such as feed, seed, fertilizer, petroleum products, farmstead equipment, and building supplies. Some also handle farm home items such as heating oil, lawn and garden equipment, and food.

Major functions of *related service* cooperatives are trucking, storing, drying, or similar services related to marketing or farm supply activities.

Many cooperatives handle more than one commodity and provide both marketing and farm supply facilities, as well as facilities and equipment to perform related services such as storing, drying, and trucking. These associations are classified

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<sup>1</sup> A detailed discussion of the revisions initiated in statistical methods in 1950-51 was given in *Statistics of Farmers' Marketing, Purchasing, and Service Cooperatives, 1950-51*, U.S. Dept. Agri., Farm Credit Admin., Misc. Rpt. 169, pp. 1-3.

according to the predominant commodity or function as indicated by their business volumes.

*Other types.* Additional data on the number, participation, and activity of service cooperatives or organizations such as rural electric cooperatives, production credit associations, rural credit unions, and dairy herd improvement associations are summarized.

## **Organizational Structures**

### **Centralized**

Most farmer cooperatives are centralized organizations. Individual farmers make up the membership. These 6,014 centralized cooperatives usually serve a local area or community, county, or several counties. Most local associations usually perform a limited number of the first steps of marketing. In farm supply associations, practically all sales are at the retail level. A few centralized cooperatives operate over large geographic areas and have members in several States. They often provide more vertically integrated services such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations usually have centralized organizational structures. These associations derive all or a major portion of business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantities, grade, terms of sale, and other factors involved in marketing farm products; only a few bargain for the purchase of farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions. For example, dairy bargaining associations at one time generally performed only price negotiation. Now, many perform additional functions, such as physically handling a portion of the milk and making spot sales for their patrons. Bargaining associations, like other dairy marketing cooperatives, represent their members at Federal or State milk marketing order hearings.

### **Federated**

Federated cooperatives comprise two or more member associations organized to market farm products, purchase pro-



duction supplies, or perform bargaining functions. Member associations often operate at points quite distant from federation headquarters. One hundred eight federated cooperatives have been identified. Individual farmers are not members of strictly federated associations, rather, they are members of cooperatives that comprise the federation—sometimes called a regional cooperative. Also, some federations are made up of regional cooperatives—often called interregional associations.

### **Mixed**

A small number of cooperatives have both individual farmer members and autonomous cooperative members. Therefore, these associations are a combination of both the centralized and federated structures. Often, these cooperatives serve large geographic areas with members in many States and provide a variety of integrated services. Eighty-nine cooperatives have been identified as having a “mixed” structure.

## **Ten-Year Comparison of Cooperative Growth**

Business volume of farmer cooperatives more than tripled in the decade between fiscal year 1972 and calendar year 1981. As cooperatives declined in number, they grew in size and increased their importance as purchasers of supplies and marketers of products for members.

### **Business Volume Increases**

Net cooperative business, unadjusted for changes in the price level, increased from \$21.7 billion in 1972 to \$71.5 billion in 1981 (table 1).

During this 10-year period, marketing of farm products declined slightly from 76 to 75 percent of annual net business volume; purchases of production supplies rose from 22 to 24 percent; and related services remained about 2 percent.

Marketing volume increased from \$16.5 billion to \$53.3 billion, supplies purchased from \$4.7 billion to \$17.1 billion, and services provided from \$462 million to \$1.2 billion.

Grain, soybeans, and soybean meal and oil; dairy products; fruits and vegetables; and livestock and livestock products



**Table 1—Number and net volume of cooperatives handling farm products, farm supplies, and service receipts, 1972 and 1981<sup>1</sup>**

Item	1972		1981	
	Cooperatives handling	Net volume	Cooperatives handling <sup>2</sup>	Net volume
	<i>No.</i>	<i>1,000 dol.</i>	<i>No.</i>	<i>1,000 dol.</i>
<b>Products marketed:</b>				
Beans and peas (dry edible) .....	53	45,956	59	153,970
Cotton and cotton products .....	510	466,171	480	2,099,426
Dairy products .....	721	5,852,097	470	15,051,776
Fruits and vegetables .....	449	1,696,323	388	4,495,937
Grain, soybeans, and soybean meal and oil .....	2,725	3,806,121	2,410	19,777,374
Livestock and livestock products .....	613	2,246,899	435	5,195,806
Nuts .....	52	307,135	49	692,510
Poultry products .....	190	550,291	74	1,157,406
Rice .....	67	365,244	57	1,279,314
Sugar products .....	66	694,158	41	1,924,522
Tobacco .....	30	355,006	36	471,817
Wool and mohair .....	194	14,399	140	35,488
Miscellaneous .....	97	63,265	114	949,604
Total farm products .....	<sup>3</sup> 5,331	16,463,065	<sup>3</sup> 4,308	53,284,950
<b>Supplies purchased:</b>				
Building materials .....	2,222	192,525	2,097	447,106
Containers .....	887	128,570	658	84,676
Farm chemicals .....	3,433	233,678	3,684	1,275,032
Farm machinery and equipment .....	1,319	137,271	1,822	378,460
Feed .....	3,898	1,430,122	3,603	3,530,634
Fertilizer .....	3,992	840,052	3,789	3,676,275
Meats and groceries .....	544	65,181	482	163,480
Petroleum products .....	2,667	1,080,835	2,911	5,646,014
Seed .....	3,701	169,876	3,607	574,816
Other supplies .....	4,412	461,493	4,326	1,282,137
Total farm supplies .....	<sup>3</sup> 5,665	4,739,603	<sup>3</sup> 5,009	17,058,631
<b>Receipts for services:</b>				
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous .....	<sup>3</sup> 4,804	<sup>3</sup> 462,240	<sup>3</sup> 4,608	<sup>4</sup> 1,190,385
Total business .....	<sup>3</sup> 7,797	21,664,908	<sup>3</sup> 6,211	71,533,967

<sup>1</sup>Preliminary. Totals may not add due to rounding.

<sup>2</sup>The numbers are based on 1980 survey results due to sampling procedures used in 1981.

<sup>3</sup>Adjusted for duplication arising from multiple activities performed by many cooperatives.

<sup>4</sup>Charges for services related to marketing or purchasing but not included in the volume reported for these activities.

increased from 83 percent of all products marketed in 1972 to 84 percent in 1981.

In 1981, grain, soybeans, and soybean meal and oil accounted for a substantially greater proportion of total cooperative business than in 1972. Dairy products and livestock and livestock products accounted for substantially less. Fruits and vegetables showed a moderate decrease. Among lesser commodities, both poultry products and tobacco declined considerably.

In the farm supply group, three items—feed, petroleum products, and fertilizer—were especially important. They accounted for 71 percent of the total production supply business in 1972 and 75 percent in 1981.

Considering changes in the group, however, the proportion of dollar business volume accounted for by feed declined, while the proportion accounted for by fertilizer and petroleum products increased substantially. Farm chemicals also increased in proportion, while other production supplies showed little change.

### **Market Share Greater**

Cooperatives handled about 26 percent of the agricultural products marketed in 1972. This share increased to 33 percent in 1981.<sup>2</sup> Market shares for individual commodities higher than the overall average were milk and dairy products, rice, grain and soybeans, and cotton and cotton products.

The proportion of farm supplies handled through cooperatives was 17 percent in 1972. This proportion increased to 20 percent, due mostly to larger volumes of fertilizer, petroleum products, and farm chemicals moving through cooperatives. These production supplies were handled in greater proportion than the overall average.

### **Number of Organizations Declined**

The total number of marketing, farm supply, and related service cooperatives declined from 7,797 in 1972 to 6,211 in 1981 (table 2). The number of marketing cooperatives declined from 4,864 to 3,743 and farm supply cooperatives from 2,781 to 2,356. The number of service cooperatives declined from 152 to 112.

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<sup>2</sup>Agricultural Cooperative Service, unpublished data.

**Table 2—Number and percentage of predominantly marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981**

Period <sup>1</sup>	Marketing		Farm supply		Related service		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1950-51	6,519	64.8	3,283	32.6	262	2.6	10,064	100.0
1955-56	6,284	63.5	3,375	34.1	235	2.4	9,894	100.0
1960-61	5,727	62.5	3,222	35.2	214	2.3	9,163	100.0
1961-62	5,626	62.2	3,206	35.5	207	2.3	9,039	100.0
1962-63	5,502	61.8	3,211	36.0	194	2.2	8,907	100.0
1963-64	5,421	61.3	3,226	36.5	200	2.2	8,847	100.0
1964-65	5,305	61.8	3,085	35.9	193	2.3	8,583	100.0
1965-66	5,194	62.4	2,949	35.4	186	2.2	8,329	100.0
1966-67	5,076	62.5	2,871	35.3	178	2.2	8,125	100.0
1967-68	4,929	62.1	2,835	35.7	176	2.2	7,940	100.0
1968-69	4,773	61.6	2,793	36.1	181	2.3	7,747	100.0
1969-70	4,834	62.1	2,775	35.6	181	2.3	7,790	100.0
1970-71	5,097	63.7	2,731	34.2	167	2.1	7,995	100.0
1971-72	4,864	62.4	2,781	35.7	152	1.9	7,797	100.0
1972-73	4,897	62.3	2,801	35.7	156	2.0	7,854	100.0
1973-74	4,822	62.2	2,778	35.8	155	2.0	7,755	100.0
1974-75	4,770	62.4	2,729	35.7	146	1.9	7,645	100.0
1975-76	4,658	61.8	2,731	36.3	146	1.9	7,535	100.0
1976-77	4,008	59.5	2,593	38.5	135	2.0	6,736	100.0
1978 <sup>2</sup>	3,930	59.6	2,550	38.6	120	1.8	6,600	100.0
1979	3,825	59.3	2,507	38.9	113	1.8	6,445	100.0
1980	3,808	60.5	2,369	37.7	116	1.8	6,293	100.0
1981 <sup>3</sup>	3,743	60.3	2,356	37.9	112	1.8	6,211	100.0

<sup>1</sup>For years before 1950-51, see appendix table 5, FCS General Report 128 in libraries.

<sup>2</sup>Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

<sup>3</sup>Preliminary.

## **Business Size Increases**

Measured by annual gross business volume, farmer cooperatives increased in size. Although the majority of cooperatives remain small and primarily serve local areas, a growing minority are seeking regional, or even national, markets as a means of business growth and survival.

The increased size of individual cooperatives comes in part from mergers and consolidations. However, data used were not adjusted for changes in price levels and some size changes are due in part to inflationary effects.

In 1981, nearly 10 percent of all farmer cooperatives reported business volumes of \$15 million or more, representing 73.2 percent of the total gross dollar volume. Farmer cooperatives with business volumes of \$200 million or more represented 51.6 percent of total sales compared with 45.1 percent in the 1976<sup>3</sup> fiscal period.

The 100 largest cooperatives (usually operating over large geographic areas) make up an important minority of farmer cooperatives. During 1976, the 100 largest cooperatives accounted for about \$31.5 billion, or 56.4 percent of total gross business volume. By 1981, the 100 largest cooperatives<sup>4</sup> accounted for nearly \$56.6 billion in business volume, 55.7 percent of the total.

## **Number of Cooperatives**

The 1981 survey accounted for 6,211 marketing, farm supply, and related service<sup>5</sup> cooperatives, compared with 6,293 in 1980.

The decrease of 82 associations was 1.3 percent less than the number in 1980. The decline in number largely reflected a continuing trend involving merger, consolidation, acquisition, or dissolution.

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<sup>3</sup>Comparable data not available for the 1972 fiscal period.

<sup>4</sup>Based on amount of annual gross sales (includes intercooperative sales) but without regard to size of assets.

<sup>5</sup>Related services include trucking, storage, grinding, drying, and similar services affecting the form, quality, or location of farm products and supplies handled by cooperatives. They do not include credit, electric, or telephone services not directly related to marketing or purchasing activities.

Figure 1

## Number of Cooperatives, 1981

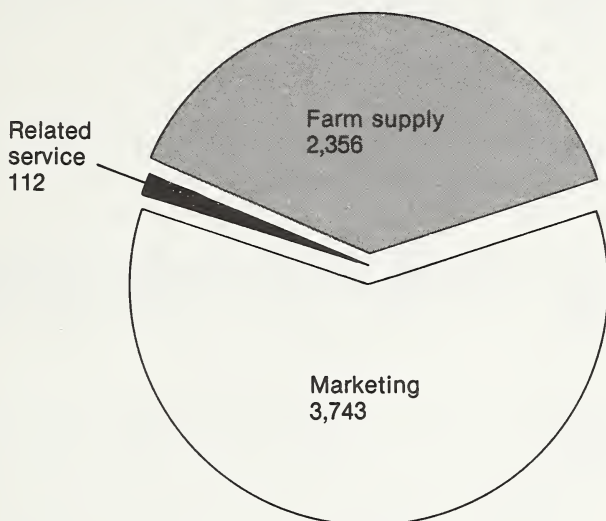


Figure 1 shows that 3,743 of the 6,211 cooperatives primarily marketed farm products, 2,356 handled farm production supplies, and 112 provided related services.

Comparison of 1981 with 1980 data shows that marketing cooperatives decreased from 60.5 to 60.3 percent of the total number of cooperatives; farm supply cooperatives increased from 37.6 to 37.9 percent; and related service cooperatives remained about 1.8 percent.

The percentage changes in table 2 are due to some extent to the reclassification of cooperatives because of changes in the function from which they derive the major portion of their dollar volume. The primary examples are marketing cooperatives whose major business became the sale of farm supplies, or farm supply cooperatives in which marketing took a dominant role.

In table 3, cooperatives are classified according to the business activity that consistently accounted for the largest percent of their dollar volume.

Minnesota had the most cooperatives with 722, North Dakota was second with 422, and Wisconsin was third with 412.



Table 3—Cooperative numbers<sup>1</sup> and memberships, by major business activity and State, 1981<sup>2</sup>

State	Beans and peas, dry edible		Cotton and cotton products <sup>3</sup>		Dairy products		Fruit and vegetables <sup>3</sup>	
	Co-op hqts. in State	Member- ships <sup>4</sup>	Co-op hqts. in State	Member- ships <sup>4</sup>	Co-op hqts. in State	Member- ships <sup>4</sup>	Co-op hqts. in State	Member- ships <sup>4</sup>
	<i>Number</i>							
Alabama .....	7	237			1	182	3	1,005
Alaska .....					1	14		
Arizona .....	5	1,810			1	176	5	1,234
Arkansas .....	22	1,403			(5)	850	8	1,240
California .....	43	5,972			12	1,520	110	24,466
Colorado .....	4	693			5	605	12	1,226
Connecticut .....					(5)	512	1	9
Delaware .....					(5)	149	1	1,259
Florida .....				3	5	369	48	3,866
Georgia .....			(5)	1	1	783	2	56
Hawaii .....					1	9	8	507
Idaho .....	1	863			1	1,142	2	2,347
Illinois .....					9	4,052	4	81
Indiana .....					2	3,496	1	163
Iowa .....					15	9,098	1	12
Kansas .....					2	2,105	1	23
Kentucky .....					2	3,356	1	398
Louisiana .....				1,182	2	1,115	4	299
Maine .....			7		1	530	7	1,371
Maryland .....					2	1,468	2	429
Massachusetts .....					2	677	1	368
Michigan .....	2	480			60	7,746	19	4,108
Minnesota .....					53	34,126	1	78



Mississippi .....	41	3,658	2	820	1	51
Missouri .....	(5)	21	3	3,937	2	236
Montana .....			2	736		
Nebraska .....	(5)		(5)	1,915		
Nevada .....		20	2	61		
New Hampshire .....			2	326		
New Jersey .....			2	268	11	1,587
New Mexico .....	18	3,737			2	42
New York .....			78	9,759	9	2,355
North Carolina .....	1	590	1	613	9	1,879
North Dakota .....			5	1,681	1	105
Ohio .....			9	6,203	8	2,438
Oklahoma .....	46	21,932	(5)	1,066		
Oregon .....			10	1,479	13	1,612
Pennsylvania .....			25	10,531	8	1,748
Rhode Island .....			(5)	75		
South Carolina .....	1	436	2	170	5	208
South Dakota .....			4	2,324		
Tennessee .....	(5)	38	2	1,796	3	50
Texas .....	250	65,896	4	3,185	6	1,093
Utah .....			3	813	3	125
Vermont .....			7	2,765	1	290
Virginia .....	(5)	10	4	1,688	5	139
Washington .....			4	1,376	34	7,626
West Virginia .....			2	446	(5)	19
Wisconsin .....			95	36,063	3	882
Wyoming .....	1	1,195	(5)	67		
Foreign .....					(5)	18
United States .....	12	4,182	446	106,946	366	67,048

See end of table for footnote references.

Table 3—Cooperative numbers<sup>1</sup> and memberships, by major business activity and State, 1981<sup>2</sup>—Continued

State	Grain, soybeans, and soybean meal and oil <sup>6</sup>			Livestock and livestock products <sup>3</sup>			Nuts <sup>7</sup>		Poultry and poultry products	
	Co-op hqts. in State	Member- ships <sup>4</sup>	Co-op hqts. in State	Co-op hqts. in State	Member- ships <sup>4</sup>	Number	Co-op hqts. in State	Member- ships <sup>4</sup>	Co-op hqts. in State	Member- ships <sup>4</sup>
Alabama .....	2	2,917	13		9,157		( <sup>5</sup> )	4,382	( <sup>5</sup> )	20,395
Alaska .....										
Arizona .....	3	1,308	( <sup>5</sup> )		236		( <sup>5</sup> )	13	( <sup>5</sup> )	183
Arkansas .....	6	17,918	5		922		( <sup>5</sup> )	71	( <sup>5</sup> )	182
California .....	3	474	1		2,315		5	8,101	3	105
Colorado .....	22	14,368	6		3,761					
Connecticut .....			( <sup>5</sup> )		1				( <sup>5</sup> )	9
Delaware .....			( <sup>5</sup> )		1				( <sup>5</sup> )	2
Florida .....	( <sup>5</sup> )	16	1		353		( <sup>5</sup> )	1,680	1	7,964
Georgia .....							2	6,235	4	41,136
Hawaii .....							2	133		
Idaho .....	13	9,513	6		3,271					
Illinois .....	156	88,306	5		39,793					
Indiana .....	46	127,595	3		29,257				1	5
Iowa .....	221	125,762	9		19,475					
Kansas .....	195	150,621	1		865				( <sup>5</sup> )	10
Kentucky .....	1	1,480	12		8,960				( <sup>5</sup> )	6
Louisiana .....	7	1,072	2		245		( <sup>5</sup> )	12	( <sup>5</sup> )	5
Maine .....									1	19
Maryland .....			( <sup>5</sup> )		1				( <sup>5</sup> )	2
Massachusetts .....										
Michigan .....	171	25,529	1		170				1	425
Minnesota .....	51	123,065	6		19,462					
			132		52,102				2	89

Mississippi.....	4	1,851	5	36,919	( <sup>5</sup> )	842
Missouri.....	22	21,996	8	14,339	( <sup>5</sup> )	10
Montana.....	43	22,719	1	933		
Nebraska.....	153	83,603	4	7,139	1	20
Nevada.....	1	9	( <sup>5</sup> )	39	1	2
New Hampshire.....			2	2,290	( <sup>5</sup> )	6
New Jersey.....						
New Mexico.....	1	1,197	( <sup>5</sup> )		( <sup>5</sup> )	172
New York.....			4	35,752	2	56
North Carolina.....			4	2,204	1	4,140
North Dakota.....	256	98,272	15	8,828		
Ohio.....	90	59,754	4	34,368	1	10
Oklahoma.....	74	49,196	1	7,200	2	2,361
Oregon.....	10	5,950			1	310
Pennsylvania.....			9	4,042		
Rhode Island.....					1	56
South Carolina.....	1	133	2	83	( <sup>5</sup> )	1
South Dakota.....	125	75,971	3	7,073	( <sup>5</sup> )	6,394
Tennessee.....	( <sup>5</sup> )	200	4	605	( <sup>5</sup> )	1
Texas.....	57	22,574	2	3,489	( <sup>5</sup> )	15,693
Utah.....	3	4,652	1	7,119	( <sup>5</sup> )	5,572
Vermont.....					3	137
Virginia.....	4	1,807	15	5,401	( <sup>5</sup> )	1
Washington.....	32	12,027	( <sup>5</sup> )	414	1	967
West Virginia.....	( <sup>5</sup> )	1	8	1,885		
Wisconsin.....	2	2,441	79	35,145	( <sup>5</sup> )	90
Wyoming.....	2	669	1	161		
Foreign.....			( <sup>5</sup> )	200		
United States.....	1,777	1,154,965	376	405,993	17	42,513
					25	109,533

See end of table for footnote reference.

Table 3—Cooperative numbers<sup>1</sup> and memberships, by major business activity and State, 1981<sup>2</sup>—Continued

State	Rice <sup>3</sup>			Sugar products <sup>8</sup>			Tobacco		Wool and mohair	
	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Member-ships <sup>4</sup>
	<i>Number</i>									
Alabama.....			( <sup>5</sup> )	3	( <sup>5</sup> )	226				
Alaska.....			( <sup>5</sup> )							
Arizona.....			( <sup>5</sup> )	22	( <sup>5</sup> )	16			( <sup>5</sup> )	75
Arkansas.....	23	21,807	( <sup>5</sup> )	2					1	363
California.....	4	3,247	3	1,790					( <sup>5</sup> )	75
Colorado.....			1	917	( <sup>5</sup> )	1,070				
Connecticut.....										
Delaware.....			3	154	( <sup>5</sup> )	2,420				
Florida.....			( <sup>5</sup> )	38	( <sup>5</sup> )	12,943				
Georgia.....										
Hawaii.....			1	302					( <sup>5</sup> )	3
Idaho.....			2	1,772					17	1,699
Illinois.....			( <sup>5</sup> )	1					1	111
Indiana.....			( <sup>5</sup> )	6	( <sup>5</sup> )	8,913				
Iowa.....			1	47					1	8,544
Kansas.....			( <sup>5</sup> )	205					( <sup>5</sup> )	1,200
Kentucky.....			1	5	7	83,071			( <sup>5</sup> )	200
Louisiana.....			12	922					1	200
Maine.....										
Maryland.....		1,591			1	4,160				
Massachusetts.....										( <sup>10</sup> )
Michigan.....			( <sup>5</sup> )	14	1	950			2	1,500
Minnesota.....			2	1,313	( <sup>5</sup> )	2			( <sup>5</sup> )	10,181

Mississippi.....	183	(5)	3	(5)	3,660	(5)	250
Missouri.....	73	(5)	3				1,653
Montana.....		3	535			22	250
Nebraska.....		2	1,063			(5)	1
Nevada.....		(5)	3			(5)	750
New Hampshire.....		(5)	117			(5)	300
New Jersey.....						1	
New Mexico.....		(5)	4				747
New York.....		(5)	2	9	72,357	4	85
North Carolina.....		1	853			2	5,500
North Dakota.....		2	410	1	8,160	1	350
Ohio.....						(5)	2
Oklahoma.....		1	169			(5)	4,409
Oregon.....						(5)	
Pennsylvania.....						17	
Rhode Island.....							
South Carolina.....		(5)	1	1	17,028	2	5,593
South Dakota.....		(5)	65				
Tennessee.....		(5)	1	9	57,782	(5)	100
Texas.....	14	1	161			3	406
Utah.....	2,720	1	9				
Vermont.....							
Virginia.....		(5)	18	3	16,820	16	3,118
Washington.....				(5)		1	12
West Virginia.....		(5)	58	2	5,130	16	1,865
Wisconsin.....		2	398		1,851	1	2,626
Wyoming.....		(5)	1			7	1,319
Foreign.....							
United States.....	54	39	11,387	34	296,559	119	53,487

See end of table for footnote references.

Table 3—Cooperative numbers<sup>1</sup> and memberships, by major business activity and State, 1981<sup>2</sup>—Continued

State	Miscellaneous marketing <sup>11</sup>			Total marketing			Farm supply			Related service <sup>12</sup>			Total
	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Co-op hqts. in State	Member-ships <sup>4</sup>	Co-op hqts. in State	Member-ships <sup>4</sup>
<i>Number</i>													
Alabama.....			26		38,504	55		50,399	3		577	84	89,480
Alaska.....			1		14							1	14
Arizona.....			14		4,982	2		34,000				16	38,982
Arkansas.....	1	629	65		45,115	54		56,783	3		1,307	122	103,205
California.....	3	1,038	192		50,342	33		17,431	15		855	240	68,628
Colorado.....			50		21,645	33		21,633	1		5	84	43,283
Connecticut.....			1		1,601	3		2,728	1		34	5	4,363
Delaware.....			1		1,411	4		9,391				5	10,802
Florida.....	1	12	58		16,484	6		3,796	2		13,171	66	33,451
Georgia.....	1	550	11		62,095	10		9,131				21	71,226
Hawaii.....	4	664	16		1,618	6		2,496	2		85	24	4,199
Idaho.....	1	33	43		20,640	19		22,471				62	43,111
Illinois.....	2	118	177		132,462	103		143,793	7		2,593	287	278,848
Indiana.....	1	21	54		169,456	43		112,555	1		105	98	282,116
Iowa.....	1	485	249		163,423	133		162,190	1		254	383	325,866
Kansas.....	( <sup>5</sup> )	2	199		155,031	47		46,740				246	201,771
Kentucky.....			24		97,476	47		155,982				71	253,458
Louisiana.....			47		6,643	40		11,338	5		173	92	18,154
Maine.....			9		1,920	1		6,902				10	8,822
Maryland.....			5		6,060	22		39,600	4		314	31	45,974
Massachusetts.....			8		2,590	6		7,447	( <sup>5</sup> )		52	14	10,089
Michigan.....	4	115	59		58,954	57		41,394	3		79	119	100,427
Minnesota.....	2	197	449		221,153	263		301,884	10		2,672	722	525,709



Mississippi.....	1	355	54	44,631	70	69,503	2	199	126	114,333
Missouri .....			34	44,340	95	192,071	2	625	131	237,036
Montana .....			73	26,812	69	36,551			142	63,363
Nebraska .....	2	218	163	94,208	109	118,949	3	8	275	213,165
Nevada .....			3	133	( <sup>5</sup> )	55			3	188
New Hampshire .....			3	1,195	( <sup>5</sup> )	1,481			3	2,676
New Jersey .....	1	40	17	4,491	7	10,302	1	17	25	14,810
New Mexico.....	( <sup>5</sup> )	1	21	5,171			1	300	22	5,471
New York.....	1	24	98	48,693	132	112,530	3	1,097	233	162,320
North Carolina.....			26	92,546	2	42,715	4	155	32	135,416
North Dakota.....			280	109,824	140	70,321	2	(16)	422	180,145
Ohio.....	1	11	117	116,854	64	61,576	3	295	184	178,725
Oklahoma.....			123	87,056	20	15,876	1	659	144	103,591
Oregon.....	1	30	37	9,599	20	45,667	1	33	58	55,299
Pennsylvania.....			60	20,786	26	54,098	3	145	89	75,029
Rhode Island.....			( <sup>5</sup> )	76	( <sup>5</sup> )	727	1	30	1	833
South Carolina.....			12	25,047	1	13,858			13	38,905
South Dakota.....	1	48	135	91,075	106	76,950	1	41	242	168,066
Tennessee.....	1	752	19	76,917	85	77,681			104	154,598
Texas.....	1	21	338	108,693	59	23,605	7	925	404	133,223
Utah.....	1	159	18	13,420	10	8,526			28	21,946
Vermont.....			8	3,056	1	3,719	1	22	10	6,797
Virginia.....			49	33,756	56	147,432	1	14	106	181,202
Washington .....	4	203	75	21,676	53	72,301	1	154	129	94,130
West Virginia .....			26	9,436	21	62,685			47	72,121
Wisconsin.....	1	17	183	79,083	213	269,747	16	241	412	349,071
Wyoming.....			13	3,809	10	6,955			23	10,764
Foreign.....			( <sup>5</sup> )	219					( <sup>5</sup> )	219
United States.....	37	5,743	3,743	2,452,219	2,356	2,855,963	112	27,236	6,211	5,335,418

See next page for footnote references.

### Footnotes to table 3.

<sup>1</sup>Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures.

<sup>2</sup>Data covering operations of cooperatives for calendar year 1981.

<sup>3</sup>Cooperatives performing specific services related to a commodity are included. Incorporated local associations of a federation that performs the actual marketing or processing are counted.

<sup>4</sup>Includes members (those entitled to vote for directors) but does not include nonvoting patrons. (There is some duplication in these membership figures because many farmers belong to more than one cooperative.) Totals may not add due to rounding.

<sup>5</sup>The cooperative with which this membership is affiliated has been counted in the State in which the cooperative maintains its headquarters. (Foreign members of U.S. headquartered cooperatives are in Canada and Mexico).

<sup>6</sup>Includes soybean marketing and processing.

<sup>7</sup>Membership of nut cooperatives that market peanuts fluctuates from year to year and is affected by the extent to which producers participate in price stabilization programs.

<sup>8</sup>Includes sugar, sugarcane, sugar beets, honey, maple syrup, molasses, and sorghum.

<sup>9</sup>Member-patrons. Number fluctuates considerably from year to year due to participation in price stabilization programs.

<sup>10</sup>No individual memberships or members located outside the State in which cooperative headquarters is located.

<sup>11</sup>Includes forest products, hay, hops, nursery stock, coffee, and other farm products not separately classified.

<sup>12</sup>Cooperatives providing services related to marketing or purchasing activities.

## Number of Memberships

Memberships in marketing, farm supply, and related service cooperatives totaled 5,335,418 in 1981, a decrease of less than 1 percent from the 5,378,888 memberships in 1980 (table 4). The long-term trend has been one of decline, reflecting, in part, the decreasing number of farmers in the United States. Many farmers were members of more than one cooperative and each membership was counted. Total membership contains duplication that cannot be eliminated with current reporting methods.

Though many farmers maintained membership in more than one cooperative, more than a million members, or 19 percent, did not actively patronize their cooperatives.

Membership figures often vary widely from year to year for cooperatives participating in price stabilization programs, particularly for those handling cotton, peanuts, or tobacco.

**Table 4—Memberships in predominantly marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981**

Period <sup>1</sup>	Marketing		Farm supply		Related service		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1950-51	4,117,950	58.1	2,878,890	40.6	94,280	1.3	7,091,120	100.0
1955-56	4,223,260	54.6	3,443,610	44.6	64,865	0.8	7,731,735	100.0
1960-61	3,473,425	48.2	3,679,675	51.1	49,795	0.7	7,202,895	100.0
1961-62	3,420,100	48.2	3,634,690	51.2	44,190	0.6	7,098,980	100.0
1962-63	3,582,110	49.6	3,595,890	49.8	40,750	0.6	7,218,750	100.0
1963-64	3,612,535	51.0	3,425,200	48.4	41,765	0.6	7,079,500	100.0
1964-65	3,790,915	53.5	3,250,840	45.9	40,255	0.6	7,082,010	100.0
1965-66	3,635,605	53.3	3,154,490	46.2	36,180	0.5	6,826,275	100.0
1966-67	3,298,435	50.7	3,168,985	48.8	34,280	0.5	6,501,700	100.0
1967-68	3,225,185	50.0	3,186,640	49.5	33,585	0.5	6,445,410	100.0
1968-69	3,141,245	49.4	3,189,460	50.1	32,850	0.5	6,363,555	100.0
1969-70	3,102,745	48.8	3,222,435	50.7	29,800	0.5	6,354,980	100.0
1970-71	3,105,005	50.4	3,021,515	49.2	25,220	0.4	6,147,740	100.0
1971-72	3,133,505	51.0	2,991,240	48.7	21,805	0.3	6,146,550	100.0
1972-73	3,117,980	50.9	2,988,050	48.8	21,905	0.3	6,127,935	100.0
1973-74	3,111,255	51.0	2,972,455	48.7	21,820	0.3	6,105,530	100.0
1974-75	3,126,500	51.1	2,971,400	48.5	24,600	0.4	6,122,500	100.0
1975-76	2,811,858	47.6	3,056,071	51.7	38,450	0.7	5,906,379	100.0
1976-77	2,655,018	46.1	3,066,023	53.3	36,687	0.6	5,757,728	100.0
1978 <sup>2</sup>	2,595,000	45.6	3,063,000	53.8	36,500	0.6	5,694,500	100.0
1979	2,530,733	45.0	3,060,020	54.4	36,443	0.6	5,627,196	100.0
1980	2,541,995	47.3	2,804,482	52.1	32,411	0.6	5,378,888	100.0
1981 <sup>3</sup>	2,452,219	46.0	2,855,963	53.5	27,236	0.5	5,335,418	100.0

<sup>1</sup>For years before 1950-51, see appendix table 6, FCS General Report 128 in libraries.

<sup>2</sup>Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

<sup>3</sup>Preliminary.

Classification of members is affected also by the diversity of services offered by cooperatives. For example, a member may use a cooperative to market only one of the farm products handled by the cooperative, or a member may use a cooperative classified in the marketing group only for purchasing one or more types of production supplies. The member's business with the cooperative, therefore, may not be in the group that represents the cooperative's major business volume (which determines how the cooperative is classified in this report). The membership, however, will be included arbitrarily in that classification.

Minnesota continued to lead in memberships with 525,709 (table 3). Wisconsin was second with 349,071, and Iowa was third with 325,866.

**Table 5—Number of farmer cooperatives and full-time employees by principal products marketed and major function, 1981**

Principal products marketed and major function	Cooperatives	Full-time employees
<i>Number</i>		
Products marketed:		
Cotton and cotton products .....	441	5,580
Dairy products .....	446	39,427
Fruits & vegetables .....	366	20,711
Grain, soybeans, and soybean meal & oil .....	1,777	32,965
Livestock, wool, and products .....	495	2,139
Poultry products .....	25	12,199
Rice .....	54	2,252
Sugar products .....	39	5,256
Other products <sup>1</sup> .....	100	1,854
Total farm products .....	3,743	122,383
Total farm supplies .....	2,356	80,188
Total related services .....	112	987
Combined total .....	6,211	203,558

<sup>1</sup>Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

## **Number of Full-time Employees**

The 6,211 farmer marketing, farm supply, and related service cooperatives employed nearly 204,000 persons on a full-time basis in 1981, or an average of 33 persons per association (table 5).

Marketing cooperatives, totaling 3,743, employed more than 122,000 persons—also an average of nearly 33 persons per association. Dairy marketing cooperatives had the most full-time employees with 39,000, while cooperatives primarily marketing grain, soybeans, and soybean meal and oil were in second place with 33,000—together accounting for more than half (59 percent) of the full-time employees of marketing cooperatives.

The 2,356 farm supply cooperatives employed more than 80,000 persons on a full-time basis, or an average of 34 persons per association.

Related service cooperatives, numbering 112, accounted for about 1,000 full-time employees—an average of nearly 9 persons per association.

## **Business Volume**

Total gross business volume of 6,211 marketing, farm supply, and related service cooperatives amounted to \$101.5 billion (table 6). This was an increase of 9.7 percent over the \$92.5 billion gross reported in 1980.

Total net business volume of farmer cooperatives amounted to \$71.5 billion. This amount included \$53.3 billion for farm products marketed, \$17 billion for farm supplies purchased, and \$1.2 billion for services performed. The total net figure of \$71.5 billion, which excludes intercooperative business (the difference between gross and net business volumes), represented an increase of 8 percent over the \$66.3 billion in 1980. However, discounting for inflation, real growth was estimated to be 3.9 percent.<sup>6</sup> Intercooperative business rose to \$29.9 billion from \$26.3 billion in 1980.

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<sup>6</sup>By deflating the volume of farm products handled by cooperatives in 1981 by indices of producer prices for farm products and processed foods and feeds and the volume of farm supplies and related services by the index on prices paid by farmers for production of all commodities excluding interest, taxes, and wage rates, total business volume amounted to \$68.9 billion—only a 3.9-percent increase over the 1980 volume.



Table 6—Business volume of marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981

Period <sup>1</sup>	Gross volume (includes intercooperative business)			Net volume (excludes intercooperative business)			
	Farm products	Farm supplies	Related services <sup>2</sup>	Total	Farm products	Farm supplies	Related services <sup>2</sup>
<i>1,000 dollars</i>							
1950-51	7,984,777	2,437,521	99,958	10,522,256	6,361,766	1,685,413	99,958
1955-56	9,514,387	2,972,696	214,880	12,701,963	7,495,159	2,046,086	214,880
1960-61	12,143,722	3,744,711	305,600	16,194,033	9,631,247	2,472,286	305,600
1961-62	12,992,656	3,914,849	302,102	17,209,607	10,160,364	2,561,338	302,102
1962-63	13,893,463	4,145,263	303,281	18,342,007	10,834,165	2,704,400	303,281
1963-64	14,532,553	4,393,864	313,103	19,239,520	11,209,069	2,831,586	313,103
1964-65	14,816,217	4,495,217	315,527	19,626,961	11,516,217	2,910,188	315,527
1965-66	15,489,446	4,804,443	325,071	20,618,960	12,197,744	3,085,382	325,071
1966-67	16,265,376	5,314,427	317,570	21,897,373	12,899,762	3,339,207	317,570
1967-68	16,556,620	5,565,045	316,014	22,437,679	13,189,137	3,544,854	316,014
1968-69	16,841,051	5,643,341	350,761	22,835,153	13,420,765	3,615,271	350,761
1969-70	18,388,420	5,986,359	391,176	24,765,955	14,816,000	3,873,211	391,176
1970-71	20,118,015	6,748,989	414,299	27,281,303	15,801,872	4,339,529	414,299
1971-72	20,794,406	7,395,899	462,240	28,652,545	16,463,065	4,739,603	462,240
1972-73	25,110,374	8,841,293	502,800	34,454,467	19,573,016	5,914,962	502,800
1973-74	35,632,381	11,395,208	657,730	47,685,319	26,943,792	7,764,027	657,730
1974-75	40,313,162	13,416,013	744,477	54,473,652	31,937,363	8,660,605	744,477
1975-76	39,402,165	15,553,633	855,277	55,811,075	29,783,115	9,411,685	855,277
1976-77	40,803,827	17,790,798	892,977	59,487,602	32,133,711	10,557,465	892,977
1978 <sup>3</sup>	45,072,429	18,604,619	947,655	64,624,703	35,305,600	11,051,865	947,655
1979	53,668,810	22,669,818	1,053,559	77,392,187	41,693,349	13,521,489	1,053,559
1980	63,650,268	27,660,042	1,209,225	92,519,535	48,911,018	16,134,111	1,209,225
1981 <sup>4</sup>	70,161,551	30,127,323	1,190,385	101,479,260	53,284,950	17,058,630	1,190,385



Period <sup>1</sup>	Gross volume (includes intercooperative business)			Net volume (excludes intercooperative business)				
	Farm products	Farm supplies	Related services <sup>2</sup>	Total	Farm products	Farm supplies	Related services <sup>2</sup>	Total
	<i>Percent</i>							
1950-51	75.9	23.2	0.9	100.0	78.1	20.7	1.2	100.0
1955-56	74.9	23.4	1.7	100.0	76.8	21.0	2.2	100.0
1960-61	75.0	23.1	1.9	100.0	77.6	19.9	2.5	100.0
1961-62	75.5	22.7	1.8	100.0	78.0	19.7	2.3	100.0
1962-63	75.7	22.6	1.7	100.0	78.3	19.5	2.2	100.0
1963-64	75.5	22.9	1.6	100.0	78.1	19.7	2.2	100.0
1964-65	75.5	22.9	1.6	100.0	78.1	19.8	2.1	100.0
1965-66	75.1	23.3	1.6	100.0	78.1	19.8	2.1	100.0
1966-67	74.3	24.3	1.4	100.0	77.9	20.2	1.9	100.0
1967-68	73.8	24.8	1.4	100.0	77.4	20.8	1.8	100.0
1968-69	73.8	24.7	1.5	100.0	77.2	20.8	2.0	100.0
1969-70	74.2	24.2	1.6	100.0	77.7	20.3	2.0	100.0
1970-71	73.8	24.7	1.5	100.0	76.9	21.1	2.0	100.0
1971-72	72.6	25.8	1.6	100.0	76.0	21.9	2.1	100.0
1972-73	72.9	25.7	1.4	100.0	75.3	22.8	1.9	100.0
1973-74	74.7	23.9	1.4	100.0	76.2	21.9	1.9	100.0
1974-75	74.0	24.6	1.4	100.0	77.3	20.9	1.8	100.0
1975-76	70.6	27.9	1.5	100.0	74.4	23.5	2.1	100.0
1976-77	68.6	29.9	1.5	100.0	73.7	24.2	2.1	100.0
1978 <sup>3</sup>	69.7	28.8	1.5	100.0	74.6	23.4	2.0	100.0
1979	69.3	29.3	1.4	100.0	74.1	24.0	1.9	100.0
1980	68.8	29.9	1.3	100.0	73.8	24.4	1.8	100.0
1981 <sup>4</sup>	69.1	29.7	1.2	100.0	74.5	23.8	1.7	100.0

<sup>1</sup>For years prior to 1950-51, see appendix table 7, FCS General Report 128, in libraries. Data for prior years are not entirely comparable due to revisions in statistical procedures in 1950-51.

<sup>2</sup>Services related to marketing or supply purchasing but not included in the volumes reported for these activities.

<sup>3</sup>Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

<sup>4</sup>Preliminary.

Gross and net volumes of business for marketing, purchasing, and related service activities are shown in table 6 for selected years from fiscal 1951 through calendar 1981. Both gross and net volumes exceeded 1980 totals.

Gross volume of farm products marketed by cooperatives increased from \$63.7 billion in 1980 to \$70.2 billion, an increase of 10.2 percent. The net volume of farm products marketed amounted to \$53.3 billion and accounted for 74.5 percent of the total net volume of cooperatives. The net marketing volume represented an increase of 8.9 percent from the \$48.9 billion for 1980. Gains resulted primarily from increases in the dollar volumes reported for grain, soybeans, soybean meal and oil, and dairy products.

Figure 2 illustrates the leading products marketed by cooperatives based on net marketing business volume. Grain, soybeans, and soybean meal and oil led with 37.1 percent of total net marketing volume, followed by dairy products and livestock products.

Gross volume of all farm supplies handled by cooperatives amounted to \$30.1 billion, an 8.9-percent increase from the \$27.7 billion gross in 1980. The net farm supply volume of \$17.1 billion accounted for 23.8 percent of the total net business volume, a 5.7-percent increase over the \$16.1 billion volume in 1980. Increases in net volumes of petroleum products, feed, and fertilizer largely accounted for this rise.

As shown in figure 3, leading farm supplies handled by cooperatives in terms of net business volume were petroleum products, with 33.1 percent of the total, followed by fertilizer and feed.

Receipts for services performed by all types of cooperatives amounted to \$1.2 billion, a 1.6-percent decrease from the 1980 service receipts. Service receipts represented 1.7 percent of total net business volume.

An estimated 69.4 percent of the 6,211 cooperatives, or 4,308 cooperatives, marketed farm products (table 7). Farm supplies were handled by 5,009 cooperatives, 80.6 percent of the total, while 4,608 cooperatives, or 74.2 percent of the total, performed one or more services related to farm product marketing and farm supply purchasing.

The 1981 estimated volume of farm products marketed and farm supplies purchased by cooperatives is shown by State in table 8.

Figure 2

### Relative Importance of Major Farm Products Marketed by Cooperatives, 1981

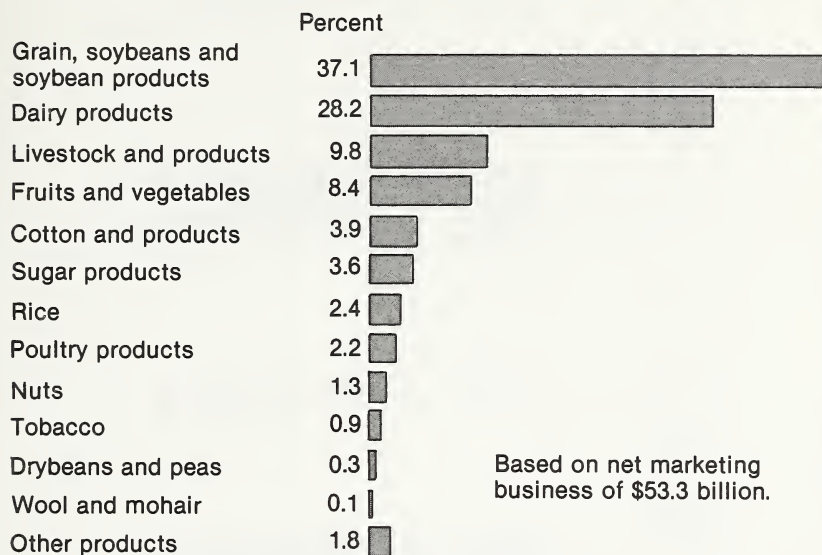


Figure 3

### Relative Importance of Major Farm Supplies Handled by Cooperatives, 1981

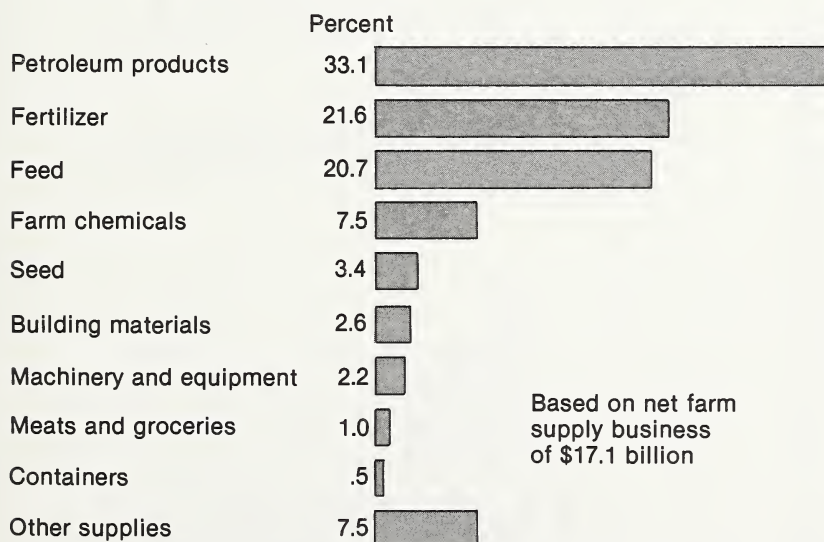


Table 7—Cooperative business volume by commodity, 1981<sup>1</sup>

Commodity	Cooperatives handling <sup>2</sup>		Gross volume (includes inter-cooperative business)		Net volume (excludes inter-cooperative business)	
	No.	Pct. <sup>3</sup>	1,000 dol.	Pct.	1,000 dol.	Pct.
Products marketed:						
Beans and peas (dry edible) .....	59	1.0	247,246	0.2	153,970	0.2
Cotton and cotton products .....	480	7.7	2,469,549	2.4	2,099,426	2.9
Dairy products .....	470	7.6	16,572,275	16.3	15,051,776	21.0
Fruits and vegetables .....	388	6.2	5,985,812	5.9	4,495,937	6.3
Grain, soybeans, and soybean meal and oil .....	2,410	38.8	32,599,061	32.1	19,777,374	27.6
Livestock and livestock products .....	435	7.0	5,592,183	5.5	5,195,806	7.3
Nuts .....	49	0.8	692,510	0.7	692,510	1.0
Poultry products .....	74	1.2	1,299,874	1.3	1,157,406	1.6
Rice .....	57	0.9	1,279,314	1.3	1,279,314	1.8
Sugar products .....	41	0.7	1,935,670	1.9	1,924,522	2.7
Tobacco .....	36	0.6	471,817	0.5	471,817	0.7
Wool and mohair .....	140	2.3	60,110	0.1	35,488	0.1
Miscellaneous <sup>4</sup> .....	114	1.8	956,131	0.9	949,604	1.3
Total farm products .....	54,308	69.4	70,161,551	69.1	53,284,950	74.5

Supplies purchased:					
Building materials.....	2,097	33.8	583,900	0.6	447,106
Containers and packaging supplies.....	658	10.6	298,970	0.3	84,676
Farm chemicals.....	3,684	59.3	2,225,248	2.2	1,275,032
Farm machinery and equipment	1,822	29.3	564,370	0.6	378,460
Feed.....	3,603	58.0	5,590,005	5.5	3,530,634
Fertilizer.....	3,789	61.0	6,910,499	6.8	3,676,275
Meats and groceries.....	482	7.8	219,350	0.2	163,480
Petroleum products.....	2,911	46.9	11,067,399	10.9	5,646,014
Seed.....	3,607	58.1	775,403	0.8	574,816
Miscellaneous supplies <sup>6</sup> .....	4,326	69.7	1,892,180	1.9	1,282,137
Total farm supplies.....	55,009	80.6	30,127,323	29.7	17,058,631
Services provided:					
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous.....	54,608	74.2	71,190,385	1.2	71,190,385
Total business.....	56,211	100.0	101,479,260	100.0	71,533,967

<sup>1</sup>Preliminary. Totals may not add due to rounding.

<sup>2</sup>The numbers are based on 1980 survey results, due to sampling procedures used in 1981.

<sup>3</sup>Number of cooperatives handling each commodity group is computed as a percentage of the total number of 6,211 active cooperatives listed.

<sup>4</sup>Includes coffee, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons.

<sup>5</sup>Because many cooperatives do more than one type of business, these totals are fewer than the number obtained by adding the number of cooperatives handling individual items or performing individual services.

<sup>6</sup>Includes plant equipment, automotive supplies, hardware, chicks, and other supplies not separately classified.

<sup>7</sup>Charges for services related to marketing or purchasing but not included in the volume reported for those activities.



Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>

State	Beans and peas—dry edible		Cotton and cotton products		Dairy products		Fruits and vegetables	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	<i>1,000 dollars</i>							
Alabama .....			11,147	10,859	34,822 <sup>(3)</sup>	34,038 <sup>(3)</sup>	53	52
Alaska .....								
Arizona .....			308,390	306,576	153,611	153,611	111,703	24,235
Arkansas .....			27,822	21,646	128,635	128,635	13,326	13,326
California .....	39,697	39,697	981,795	850,445	999,086	998,034	2,519,620	1,741,650
Colorado .....	26,143	17,569			134,583	129,825	41,133	18,886
Connecticut .....					70,821	61,614	1,353	1,353
Delaware .....					13,834	13,834	3,200	3,152
Florida .....					328,556	321,115	1,150,421	679,733
Georgia .....					213,721	208,927	766	766
Hawaii .....					<sup>(3)</sup>	<sup>(3)</sup>	19,201	18,958
Idaho .....	16,226	16,176			202,684	183,252	74,963	74,963
Illinois .....					582,259	581,753	3,411	3,411
Indiana .....					257,401	253,332	11,162	11,162
Iowa .....					668,176	642,254	21,410	21,410
Kansas .....					208,185	208,146	186	186
Kentucky .....					207,172	199,895	762	762
Louisiana .....			29,069	28,633	165,598	163,893	381	381
Maine .....					21,248	19,309	13,737	13,737
Maryland .....					259,790	246,020	1,974	1,941
Massachusetts .....					72,464	64,227	140,177	140,177
Michigan .....	128,071	55,233			786,348	710,236	218,281	188,881
Minnesota .....					2,006,441	1,690,355	7,322	7,322



Mississippi .....	217,726	186,550	81,782	79,771	2,192	2,192
Missouri .....	3,027	2,416	399,536	399,502	1,622	1,622
Montana .....	7,237	5,015				
Nebraska .....			27,921	27,921		
Nevada .....			144,069	140,880		
New Hampshire .....	510	510	18,698	18,698		
New Jersey .....			31,853	28,945		
New Mexico .....			52,992	49,665	76,092	76,092
New York .....	23,464	21,570			4,183	4,183
North Carolina .....	5,789	5,789	1,162,218	917,633	176,955	176,927
North Dakota .....	655		135,058	131,757	9,237	8,567
Ohio .....			120,043	109,134	10,750	10,750
Oklahoma .....	93,035	66,643	455,580	442,290	28,161	28,161
Oregon .....			167,076	167,076	2,432	2,432
Pennsylvania .....	555		207,103	178,079	236,601	236,601
Rhode Island .....			890,937	822,656	191,927	183,844
South Carolina .....	2,533	2,533	(3)	(3)		
South Dakota .....			36,268	35,499	3,733	2,583
Tennessee .....	332		182,842	133,285		
Texas .....	764,911	279	171,846	165,274	288	288
Utah .....		594,977	537,234	537,234	63,317	25,612
Vermont .....			182,469	182,469	2,141	2,141
Virginia .....			263,279	250,680		
Washington .....	9,484	9,092	290,844	279,530	12,291	11,750
West Virginia .....			645,876	286,231	502,642	454,582
Wisconsin .....			39,422	38,004	3,695	3,524
Wyoming .....	5,240	1,972	2,715,248	2,581,893	273,342	272,742
Foreign <sup>4</sup> .....			13,265	12,951		
United States .....	247,246	153,970	23,379	22,410	29,669	24,901
		2,469,549	16,572,275	15,051,776	5,986,812	4,495,937

See end of table for footnote references.

Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

State	Grain, soybeans, and soybean meal and oil			Livestock and livestock products			Nuts		Poultry and poultry products		
	Gross	Net	Net	Gross	Net	Net	Gross	Net	Gross	Net	Net
<i>1,000 dollars</i>											
Alabama .....	188,213	125,105		23,579	23,579		84,559	84,559	184,481	184,481	
Alaska .....											
Arizona .....	20,965	20,965		43,964	43,964		12	12			
Arkansas .....	309,262	262,527		8,365	8,365		73	73	6,486	6,486	
California .....	37,571	37,571		108,284	108,284		446,556	446,556	27,056	27,056	
Colorado .....	277,834	235,813		184,979	184,978						
Connecticut .....									8,061	8,061	
Delaware .....	10,546	8,618		437	393						
Florida .....	52,612	40,579					16,282	16,282	89,515	88,462	
Georgia .....	184,504	147,636		22,185	22,185		65,951	65,951	303,971	303,887	
Hawaii .....							3,394	3,394			
Idaho .....	213,814	127,505		12,567	12,567						
Illinois .....	3,790,978	2,358,917		577,709	560,651						
Indiana .....	1,734,528	1,048,889		182,894	182,877				34,024	16,915	
Iowa .....	6,511,449	3,866,344		1,097,156	1,094,060				20,955	20,386	
Kansas .....	2,383,913	1,469,645		75,906	75,906				145	145	
Kentucky .....	39,448	37,004		61,787	60,575				436	300	
Louisiana .....	288,816	137,938		434	434				145	145	
Maine .....	723	723							2,722	2,722	
Maryland .....	39,841	32,988		174	156				5,043	3,393	
Massachusetts .....											
Michigan .....	447,867	203,509		2,200	2,200				4,701	4,701	
Minnesota .....	3,336,086	1,801,308		258,929	255,528				10,000	10,000	
				465,364	325,501				113,047	82,241	

Mississippi .....	278,885	178,478	47,482	47,482	167	167	80,617	80,574
Missouri .....	2,621,182	1,260,189	447,856	446,723			398	398
Montana .....	355,697	210,362	7,115	6,643			15,319	7,104
Nebraska .....	1,594,778	1,192,204	757,208	757,208			1,800	1,800
Nevada .....	1	1					2,763	2,763
New Hampshire .....							3,825	3,825
New Jersey .....	9,234	9,234	8,230	8,230				
New Mexico .....	19,756	12,564			283	283		
New York .....	52,477	52,477	76,846	76,846			21,348	21,264
North Carolina .....	30,748	30,748	19,821	19,363	4,357	4,357	94,236	90,750
North Dakota .....	1,646,165	1,139,414	40,291	31,640				
Ohio .....	2,022,314	1,093,729	302,799	294,717			42,307	17,353
Oklahoma .....	697,489	400,870	134,649	134,649	16,662	16,662	96	96
Oregon .....	183,617	156,376			11,367	11,367	31,798	14,647
Pennsylvania .....	11,152	11,152	8,525	8,489			18,278	17,899
Rhode Island .....							( <sup>2</sup> )	( <sup>2</sup> )
South Carolina .....	78,383	64,992	801	801	3,160	3,160	5,927	5,632
South Dakota .....	942,999	484,673	108,216	105,857				
Tennessee .....	133,895	106,372	1,641	1,641	1	1	193	193
Texas .....	1,046,238	626,554	54,776	54,776	17,086	17,086	435	435
Utah .....	8,843	5,706	60,873	60,873			56,664	21,751
Vermont .....							25	25
Virginia .....	79,349	68,427	26,266	24,081	22,563	22,563	51,026	50,752
Washington .....	761,462	604,599	120	120			1,408	141
West Virginia .....			7,805	7,599			34,040	34,040
Wisconsin .....	73,082	73,082	351,493	143,406			18,413	18,413
Wyoming .....	8,731	8,731	2,460	2,460				
Foreign <sup>4</sup> .....	73,614	22,853			36	36	8,171	8,171
United States .....	32,599,061	19,777,374	5,592,183	5,195,806	692,510	692,510	1,299,874	1,157,406

See end of table for footnote references.

Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

State	Rice		Sugar products		Tobacco		Wool and mohair	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama .....								
Alaska .....								
Arizona .....			1,471	1,471			119	119
Arkansas .....	400,445	400,445	490	490			81	81
California .....	439,210	439,210	800,725	789,577			5,779	2,858
Colorado .....			56,589	56,589			1,614	951
Connecticut .....					220	220		
Delaware .....								
Florida .....			226,427	226,427				
Georgia .....			981	981	10,951	10,951		
Hawaii .....			( <sup>5</sup> )	( <sup>5</sup> )				
Idaho .....			49,835	49,835			29	29
Illinois .....							912	912
Indiana .....							34	34
Iowa .....			1,471	1,471	1,016	1,016	1,726	1,754
Kansas .....							3,331	
Kentucky .....			7,503	7,503			1,841	779
Louisiana .....			1	1			93	93
Maine .....			113,860	113,859	128,381	128,381	47	47
Maryland .....	65,191	65,191						
Massachusetts .....					6,263	6,263		
Michigan .....			490	490			623	623
Minnesota .....			310,235	310,235			6,343	4,120

Mississippi .....	4,512	4,512	490	490	3,448	3,448	156	156
Missouri .....	6,650	6,650						
Montana .....			32,662	32,662			1,846	1,846
Nebraska .....			55,356	55,356			2,592	187
Nevada .....			490	490			268	268
New Hampshire .....							180	180
New Jersey .....							40	40
New Mexico .....			490	490				
New York .....			115	115			493	360
North Carolina .....					219,749	219,749		
North Dakota .....			153,150	153,150			21	21
Ohio .....			15,111	15,111	5,041	5,041	2,802	810
Oklahoma .....								
Oregon .....			43,800	43,800			249	249
Pennsylvania .....					1,172	1,172	29	29
Rhode Island .....							455	455
South Carolina .....								
South Dakota .....					17,376	17,376		
Tennessee .....			3,432	3,432			15,900	11,237
Texas .....	363,306	363,306	1	1	34,987	34,987		
Utah .....			52,172	52,172				
Vermont .....			1	1			5,126	2,338
Virginia .....								
Washington .....			981	981	33,548	33,548	643	643
West Virginia .....					1,415	1,415	54	54
Wisconsin .....			981	981	8,250	8,250	407	407
Wyoming .....			4,709	4,709			963	487
Foreign <sup>4</sup> .....			1,653	1,653			5,311	3,319
United States .....	1,279,314	1,279,314	1,935,670	1,924,522	471,817	471,817	60,110	35,488

See end of table for footnote references.

Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

State	Miscellaneous marketing <sup>3</sup>		Total farm products marketed		Building materials		Containers and packaging supplies	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama .....	47	47	526,900	462,719	4,109	2,973	418	418
Alaska .....			(3)	(3)	(3)	(3)		
Arizona .....			640,235	550,953	683	46	2,085	2,023
Arkansas .....	1	1	894,988	842,077	7,544	3,530	1,810	1,809
California .....	59,908	59,908	6,465,286	5,540,846	11,801	10,275	132,805	21,835
Colorado .....	1,920	1,384	724,795	645,995	5,542	2,990	2,080	780
Connecticut .....			80,454	71,248	5,291	3,253	108	66
Delaware .....			28,017	25,998	3,042	1,885	81	64
Florida .....	11,082	11,082	1,874,895	1,383,679	583	578	83,923	921
Georgia .....	192	192	803,222	761,476	6,951	5,387	885	885
Hawaii .....	2,944	2,944	25,568	25,325	434	131	685	559
Idaho .....	4,010	4,010	575,013	469,222	1,604	1,604	149	149
Illinois .....	5,292	4,754	4,959,683	3,509,521	24,366	20,279	295	295
Indiana .....	26	26	2,222,776	1,514,216	30,988	27,728	191	90
Iowa .....	902	364	8,324,850	5,648,043	92,239	81,959	18	16
Kansas .....	348	348	2,678,026	1,762,657	21,720	12,667	267	267
Kentucky .....			438,080	427,013	6,262	4,609	150	150
Louisiana .....	250	250	663,791	510,771	2,548	1,148	230	230
Maine .....	1,598	1,598	40,028	38,090	6,889	4,443	2,870	2,820
Maryland .....	1,190	1,190	314,275	291,952	6,177	4,050	50	33
Massachusetts .....			219,542	211,304	8,732	5,470	567	491
Michigan .....	6,592	6,054	1,857,202	1,430,554	18,522	15,823	3,945	3,401
Minnesota .....	6,376	6,376	6,311,214	4,227,458	38,773	35,790	1,437	1,236



Mississippi .....	2,027	2,027	713,197	579,561	4,579	3,330	1,199	1,199
Missouri .....			3,484,936	2,122,164	21,570	13,222	662	207
Montana .....	266	2	434,366	286,073	4,028	4,028		
Nebraska .....	13,556	13,556	2,582,879	2,166,496	20,257	13,856	45	6
Nevada .....	694	694	22,461	22,461	46	46	20	20
New Hampshire .....			34,796	31,888	2,123	1,308	43	26
New Jersey .....	229	229	150,643	147,316	8,670	5,408	1,292	1,225
New Mexico .....	3,253	3,253	51,429	42,344	22	22	346	346
New York .....	358	358	1,498,816	1,253,986	36,500	23,666	1,938	1,720
North Carolina .....			518,996	511,082	2,681		606	606
North Dakota .....	695	6	1,977,583	1,444,770	45,719	44,968	1,677	1,676
Ohio .....	500	500	2,874,615	1,897,711	15,288	10,136	1,744	1,741
Oklahoma .....	189	189	1,111,878	788,867	7,685	4,064	2,113	947
Oregon .....	8,769	8,769	723,757	650,224	5,844	5,844	5,347	5,284
Pennsylvania .....			1,122,446	1,045,666	36,918	21,900	2,802	2,251
Rhode Island .....			( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
South Carolina .....			148,180	132,575	536	536	170	170
South Dakota .....	1	1	1,253,389	738,485	14,863	13,052	74	74
Tennessee .....	1	1	343,184	309,036	10,798	9,234	428	196
Texas .....	2,412	2,412	2,901,886	2,274,564	4,561	2,172	15,419	13,933
Utah .....	2,260	2,260	318,377	277,539	2,657	2,657	197	31
Vermont .....			263,304	250,705	7,367	4,513	533	475
Virginia .....			516,531	491,295	11,280	5,155	140	140
Washington .....	13,091	13,091	1,935,119	1,368,891	6,701	5,584	26,358	13,301
West Virginia .....	34	34	86,817	85,022	1,843	1,330	43	43
Wisconsin .....	737	199	3,442,508	3,099,453	4,562	2,868	703	511
Wyoming .....	391	3	40,108	34,146	591	591		
Foreign <sup>4</sup> .....	803,989	801,489	940,511	881,514	1,407	1,000	22	13
United States .....	956,131	949,604	70,161,551	53,284,950	583,900	447,106	298,970	84,676

See end of table for footnote references.

Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

State	Farm chemicals			Farm machinery and equipment			Feed		Fertilizer		
	Gross	Net		Gross	Net		Gross	Net	Gross	Net	
						<i>1,000 dollars</i>					
Alabama .....	43,144	24,397		5,503 <sup>(3)</sup>	5,301 <sup>(3)</sup>	137,040 <sup>(3)</sup>		90,183 <sup>(3)</sup>	160,483 <sup>(3)</sup>		94,931 <sup>(3)</sup>
Alaska .....											
Arizona .....	366	364		4,238	4,179	13,300		9,475	2,324		1,201
Arkansas .....	65,368	39,545		10,372	6,888	78,935		50,541	152,793		87,247
California .....	28,766	24,550		7,340	5,663	105,271		104,027	48,217		36,534
Colorado .....	21,781	8,581		5,328	1,619	72,387		34,356	65,089		39,486
Connecticut .....	5,194	2,255		2,527	1,551	71,250		57,167	8,053		3,997
Delaware .....	6,269	3,882		2,333	1,532	15,994		9,325	18,358		10,576
Florida .....	13,469	13,254		2,890	2,889	61,320		43,494	91,942		37,689
Georgia .....	29,807	22,052		6,939	6,939	149,228		100,856	102,485		67,376
Hawaii .....	826	481		196	83	3,951		3,864	2,314		942
Idaho .....	9,451	5,262		1,503	575	17,009		13,483	30,320		17,136
Illinois .....	245,120	138,070		14,105	6,792	218,115		139,719	652,121		321,352
Indiana .....	102,304	55,246		19,510	12,757	163,250		121,860	329,972		188,608
Iowa .....	298,728	178,786		21,850	8,796	701,310		384,848	803,964		447,947
Kansas .....	79,981	35,480		40,623	28,771	272,671		119,370	290,525		162,584
Kentucky .....	28,315	22,460		10,245	8,261	68,833		46,845	75,657		55,403
Louisiana .....	43,688	25,127		3,078	1,329	39,545		22,693	99,342		48,044
Maine .....	7,539	4,012		5,500	4,328	44,271		24,554	18,925		9,799
Maryland .....	20,100	14,281		9,601	7,535	59,415		39,015	55,345		36,987
Massachusetts .....	9,450	4,705		4,101	2,539	55,072		38,163	7,585		4,543
Michigan .....	31,489	21,365		7,818	7,172	66,232		53,609	124,910		60,715
Minnesota .....	180,188	91,472		50,652	24,380	346,783		186,349	548,481		243,391

Mississippi .....	108,423	71,801	4,240	2,238	105,404	35,064	216,951	108,758
Missouri .....	70,841	41,627	22,254	17,415	298,313	188,110	404,287	241,058
Montana .....	14,197	5,818	3,741	1,885	22,830	11,706	63,846	37,478
Nebraska .....	95,239	55,971	21,971	13,304	208,021	88,631	351,374	188,934
Nevada .....	18	18	25	25	204	204	68	68
New Hampshire .....	2,071	895	1,012	622	34,188	20,104	4,010	1,982
New Jersey .....	10,370	5,668	5,683	4,121	41,942	27,858	21,841	12,696
New Mexico .....	738	738	121	121	2,749	2,749	3,433	2,730
New York .....	55,447	25,800	33,699	23,672	290,097	242,213	117,900	60,730
North Carolina .....	21,453	14,309	5,005	880	90,107	81,473	58,749	39,056
North Dakota .....	45,968	27,767	27,845	23,615	60,379	23,753	161,683	89,209
Ohio .....	85,872	50,635	29,394	16,857	162,860	107,759	265,459	149,248
Oklahoma .....	24,282	6,481	8,314	3,573	102,104	37,675	106,103	65,362
Oregon .....	19,807	15,618	30,014	29,086	59,792	57,102	51,392	38,207
Pennsylvania .....	37,310	17,879	20,792	11,829	268,475	167,074	92,873	51,160
Rhode Island .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
South Carolina .....	6,681	6,447	735	735	16,861	14,355	19,692	18,829
South Dakota .....	37,474	20,921	8,492	4,452	110,121	64,457	104,086	62,911
Tennessee .....	66,256	31,673	11,756	9,663	179,423	99,407	168,796	73,202
Texas .....	68,042	41,188	10,748	4,628	81,605	48,685	181,989	105,774
Utah .....	4,879	2,366	3,127	2,570	50,749	49,528	56,349	9,522
Vermont .....	7,214	3,099	3,541	2,174	96,476	54,226	11,219	6,149
Virginia .....	43,133	28,747	13,056	8,231	140,196	117,576	172,088	73,762
Washington .....	32,141	20,135	24,362	21,372	62,177	59,836	93,521	50,391
West Virginia .....	7,159	5,342	2,605	1,980	35,487	29,654	18,150	12,561
Wisconsin .....	87,035	37,162	34,370	22,516	290,973	200,858	359,795	169,028
Wyoming .....	857	857	319	319	2,712	2,705	2,407	2,407
Foreign <sup>4</sup> .....	1,030	443	896	701	14,581	4,077	113,234	28,574
United States .....	2,225,248	1,275,032	564,370	378,460	5,590,005	3,530,634	6,910,499	3,676,275

See end of table for footnote references.

Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

State	Meats and groceries		Petroleum products		Seed		Miscellaneous supplies <sup>7</sup>	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama .....	55	55	21,966	21,807	33,848 <sup>(3)</sup>	22,149 <sup>(3)</sup>	25,640 <sup>(3)</sup>	10,514 <sup>(3)</sup>
Alaska .....					907	866	21,654	14,785
Arizona .....	497	497	1,034	1,034	18,942	10,252	31,420	20,054
Arkansas .....	25,468	11,571	24,591	1,467	27,646	26,360	59,619	48,864
California .....								
Colorado .....	983	983	183,492	96,466	4,601	3,322	29,171	23,316
Connecticut .....	7	7	28,685	17,075	2,556	1,401	11,232	6,580
Delaware .....	90	56	56,021	22,151	3,377	2,047	7,891	4,495
Florida .....			7,309	7,308	4,239	3,910	6,904	6,731
Georgia .....			6,452	6,452	20,020	17,675	39,371	38,539
Hawaii .....	16	10	323	118	58	47	280	186
Idaho .....	120	120	88,070	49,532	6,352	5,709	21,869	15,102
Illinois .....	887	887	672,661	356,021	57,071	37,187	70,703	38,320
Indiana .....	606	606	445,503	281,254	15,649	12,760	28,712	25,290
Iowa .....	3,521	2,792	1,082,153	494,573	44,950	32,240	79,605	54,818
Kansas .....	5,291	5,291	740,833	271,091	8,945	8,524	80,026	61,217
Kentucky .....	709	544	148,167	85,504	17,286	13,091	24,187	16,764
Louisiana .....	201	201	22,243	10,142	23,034	16,109	24,117	18,553
Maine .....	53	53	38,319	26,709	3,041	1,656	15,518	9,936
Maryland .....	399	268	205,644	90,779	11,938	8,149	22,454	14,706
Massachusetts .....	69	69	43,111	25,630	5,145	3,281	19,205	11,761
Michigan .....	7,409	6,498	139,562	80,683	14,874	12,732	33,500	21,595
Minnesota .....	36,189	25,690	841,081	414,694	45,773	39,524	173,080	93,460

Mississippi.....	30,424	23,579	50,144	32,391	32,208	18,323	32,615	24,399
Missouri.....			455,446	294,730	50,087	38,042	64,334	28,057
Montana.....	1,526	1,526	173,870	96,141	2,678	1,392	52,934	39,326
Nebraska.....	27,142	27,142	687,603	332,349	7,137	6,225	62,966	48,367
Nevada.....			10	10	47	47	63	63
New Hampshire.....	4	4	28,710	17,100	1,015	553	4,248	2,387
New Jersey.....	5,161	25	86,477	61,256	4,831	2,984	20,992	13,549
New Mexico.....	90	90	3,814	3,814	474	446	982	982
New York.....	1,015	1,015	932,301	459,531	22,065	16,060	116,424	83,035
North Carolina.....	613	613	30,233	29,442	9,468	9,468	26,257	22,747
North Dakota.....	4,849	4,667	372,377	180,096	15,895	13,627	86,902	62,143
Ohio.....	4,335	3,428	285,634	189,613	40,951	30,164	32,532	25,737
Oklahoma.....	52	52	203,134	62,924	9,186	8,244	26,981	19,458
Oregon.....	1,338	1,338	95,432	56,893	11,302	10,359	34,429	27,662
Pennsylvania.....	140	140	508,313	298,285	19,500	11,879	77,995	47,078
Rhode Island.....			( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
South Carolina.....	199	199	12,025	12,025	5,603	5,362	11,491	11,406
South Dakota.....	66	66	381,628	176,781	16,861	14,763	51,771	34,988
Tennessee.....			72,315	37,784	43,826	23,483	76,834	35,271
Texas.....	373	373	196,593	96,157	38,511	29,571	35,442	30,066
Utah.....			29,450	6,328	2,452	2,066	13,019	8,959
Vermont.....			43,422	25,941	3,472	1,855	15,542	9,029
Virginia.....	974	786	197,668	108,092	20,263	15,490	57,401	38,808
Washington.....	16,291	16,291	198,354	159,816	14,994	14,351	32,124	19,310
West Virginia.....	174	123	44,133	24,621	4,148	2,846	7,132	4,828
Wisconsin.....	33,146	24,209	612,084	324,663	27,145	17,419	119,556	84,768
Wyoming.....	1,617	1,617	19,977	19,977	506	506	2,876	2,876
Foreign <sup>4</sup> .....	7,251		457,063	119,189	528	297	2,178	1,248
United States.....	219,350	163,480	11,067,399	5,646,014	775,403	574,816	1,892,180	1,282,137

See end of table for footnote references.



Table 8—Cooperative business volume<sup>1</sup> by commodity and State, 1981<sup>2</sup>—Continued

States	Total supplies		Services		Cooperatives	Total	
	Gross	Net	Receipts <sup>8</sup>	Gross		Net	
	----- 1,000 dollars -----		----- 1,000 dollars -----		No.	----- 1,000 dollars -----	
Alabama.....	432,176	272,728	5,628		84	964,705	741,075
Alaska.....	( <sup>3</sup> )	( <sup>3</sup> )			1	( <sup>3</sup> )	( <sup>3</sup> )
Arizona.....	46,591	33,971	9,070		16	695,897	593,995
Arkansas.....	459,649	279,941	29,707		122	1,384,344	1,151,725
California.....	471,524	291,145	80,657		240	7,017,399	5,912,582
Colorado.....	390,455	211,899	13,511		84	1,128,761	871,405
Connecticut.....	134,903	93,352	67		5	215,424	164,666
Delaware.....	113,455	56,013	592		5	142,064	82,603
Florida.....	272,579	116,775	41,962		66	2,189,435	1,542,416
Georgia.....	362,138	266,161	4,389		21	1,169,749	1,032,026
Hawaii.....	9,083	6,421	680		24	35,399	35,492
Idaho.....	176,449	108,673	7,896		62	759,358	585,790
Illinois.....	1,955,445	1,058,923	71,632		287	6,986,760	4,640,076
Indiana.....	1,136,685	726,200	31,785		98	3,391,246	2,272,201
Iowa.....	3,128,338	1,686,775	141,013		383	11,594,200	7,475,830
Kansas.....	1,540,881	705,263	84,714		246	4,303,621	2,552,634
Kentucky.....	379,810	253,631	5,409		71	823,299	686,052
Louisiana.....	258,025	143,576	10,716		92	932,532	665,062
Maine.....	142,924	88,309	1,897		10	184,849	128,296
Maryland.....	391,122	215,804	3,408		31	708,805	511,163
Massachusetts.....	153,036	96,652	336		14	372,914	308,292
Michigan.....	448,261	283,591	14,590		119	2,320,053	1,728,736
Minnesota.....	2,262,437	1,155,986	70,597		722	8,644,248	5,454,041



Mississippi .....	555,763	297,504	14,702	126	1,283,662	891,766
Missouri .....	1,418,217	886,047	28,745	131	4,931,898	3,063,955
Montana .....	339,650	199,301	5,552	142	779,567	490,925
Nebraska .....	1,481,755	774,786	39,651	275	4,104,284	2,980,932
Nevada .....	501	501	363	3	23,326	23,326
New Hampshire .....	77,425	44,983	342	3	112,563	77,214
New Jersey .....	207,259	134,789	2,980	25	360,882	285,086
New Mexico .....	12,769	12,038	3,971	22	68,170	58,353
New York .....	1,607,385	937,443	21,462	233	3,127,663	2,212,891
North Carolina .....	245,171	198,593	2,313	32	766,481	711,988
North Dakota .....	823,294	471,521	21,730	422	2,822,607	1,938,020
Ohio .....	924,069	585,318	37,144	184	3,835,828	2,520,172
Oklahoma .....	489,954	208,778	36,443	144	1,638,274	1,034,088
Oregon .....	314,696	247,392	35,615	58	1,074,068	933,231
Pennsylvania .....	1,065,117	629,474	6,993	89	2,194,556	1,682,133
Rhode Island .....	(3)	(3)	(3)	1	(3)	(3)
South Carolina .....	73,994	70,065	169	13	222,343	202,810
South Dakota .....	725,436	392,464	18,607	242	1,997,432	1,149,555
Tennessee .....	630,431	319,913	5,419	104	979,094	634,428
Texas .....	633,284	372,546	146,103	404	3,681,274	2,793,213
Utah .....	162,881	84,027	10,471	28	491,728	372,037
Vermont .....	188,786	107,461	749	10	452,839	358,915
Virginia .....	656,198	396,785	6,627	106	1,179,355	894,701
Washington .....	507,024	380,387	60,974	129	2,503,116	1,810,252
West Virginia .....	120,873	83,327	1,161	47	208,852	169,511
Wisconsin .....	1,569,370	884,004	48,117	412	5,060,055	4,031,634
Wyoming .....	31,862	31,856	1,568	23	73,538	67,569
Foreign <sup>4</sup> .....	598,192	155,542	2,040		1,540,743	1,039,095
United States .....	30,127,323	17,058,631	1,190,385	6,211	101,479,260	71,533,967

See next page for footnote references.

## Footnotes to table 8.

<sup>1</sup>Data covering operations of cooperatives whose business years ended during the 1981 calendar year. Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed is allocated to the State in which they originate and the volume of farm supplies is allocated to the State in which they are sold; service volume is allocated to the State or origin when services relate to farm products marketed or to the State of destination when related to farm supplies sold.

<sup>2</sup>Gross business volume includes sales between cooperatives. Net business volume excludes sales between cooperatives. Totals may not add due to rounding.

<sup>3</sup>Dollar volume is not shown to avoid disclosing operations of individual cooperatives.

<sup>4</sup>Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.

<sup>5</sup>Included in dollar volume of California.

<sup>6</sup>Includes forest products, hays, hops, nursery stock, coffee, and other farm products not separately classified. Also includes manufactured food products and resale items marketed by cooperatives.

<sup>7</sup>Includes automotive supplies, hardware, chicks, and other supplies not separately classified.

<sup>8</sup>Receipts for services related to marketing and purchasing activities but not included in the volumes reported for these activities.

## Balance Sheet

Combined assets for all farmer cooperatives totaled \$28.8 billion in 1981, down 2 percent from the \$29.4 billion for 1980 (table 9). Assets of cooperatives, eliminating intercooperative investments, were \$26.3 billion in 1981 compared with \$26.9 billion in 1980, a 2.5-percent decrease.

Total liabilities were \$17.9 billion in 1981, down 4.8 percent from the \$18.8 billion reported in 1980. Net worth, or member and patron equity, was \$10.9 billion, up 3.1 percent from the \$10.6 billion net worth for 1980. The proportion of total assets financed by equity went up from 36 to 37.9 percent.

Of the \$28.8 billion in total assets, marketing cooperatives accounted for nearly \$16.8 billion, 3.9 percent less than the \$17.5 billion for 1980 (table 10). Cooperatives whose principal products were grain, soybeans, and soybean meal and oil had total assets of more than \$6.7 billion in 1981 and \$7.5 billion in 1980, a 10.2-percent decrease. These cooperatives also maintained the largest proportion of investment in other cooperatives in both 1981 (13.3 percent) and 1980 (10.8 percent).

**Table 9—Selected balance sheet data for farmer cooperatives by principal products marketed and major function, 1981**

Principal products marketed and major function	Total assets	Total liabilities	Net worth
<i>1,000 dollars</i>			
Products marketed:			
Cotton and cotton products .....	1,039,451	606,848	432,603
Dairy products .....	3,496,721	2,328,085	1,168,636
Fruits & vegetables .....	2,876,577	2,049,196	827,381
Grain, soybeans, and soybean meal & oil .....	6,742,140	3,747,701	2,994,439
Livestock, wool, and products .....	160,352	86,314	74,038
Poultry products .....	663,953	489,560	174,393
Rice .....	476,186	313,305	162,881
Sugar products .....	959,497	672,665	286,832
Other products <sup>1</sup> .....	361,532	189,915	171,617
Total farm products .....	16,776,409	10,483,590	6,292,819
Total farm supplies .....	11,939,999	7,343,459	4,596,540
Total related services .....	123,274	90,758	32,516
Combined total .....	28,839,682	17,917,807	10,921,875

<sup>1</sup>Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Assets of marketing cooperatives, excluding investments in other cooperatives, were nearly \$15.5 billion. This compares with \$16.2 billion reported in 1980.

Farm supply cooperatives had total assets of more than \$11.9 billion in 1981, compared with \$11.8 billion in 1980. Excluding intercooperative investments, assets amounted to \$10.6 billion in 1981, up less than 1 percent from 1980.

Current and term liabilities of marketing cooperatives totaled nearly \$10.5 billion in 1981, compared with \$11.5 billion in 1980. This represented more than half (58.5 percent) of total liabilities for all cooperatives in 1981 as well as in 1980 (60.9 percent). Grain marketing cooperatives showed more than \$3.7 billion, a 19.4-percent decrease from 1980. Combined liabilities financed 62.1 percent of total cooperative assets.

**Table 10—Assets of farmer cooperatives by principal products marketed and major function, 1981**

Principal products marketed and major function	Assets from own operations	Investments in other cooperatives	Total assets	Investments in other co-ops as percent of total
	-----	1,000 dollars	-----	Percent
Products marketed:				
Cotton and cotton products .....	968,896	70,555	1,039,451	6.8
Dairy products .....	3,301,452	195,269	3,496,721	5.6
Fruits & vegetables .....	2,802,774	73,803	2,876,577	2.6
Grain, soybeans, and soybean meal & oil .....	5,846,196	895,944	6,742,140	13.3
Livestock, wool, and products .....	153,044	7,308	160,352	4.6
Poultry products .....	634,409	29,544	663,953	4.4
Rice .....	470,745	5,441	476,186	1.1
Sugar products .....	956,190	3,307	959,497	0.3
Other products <sup>1</sup> .....	359,625	1,907	361,532	0.5
Total farm products.....	15,493,331	1,283,078	16,776,409	7.6
Total farm supplies.....	10,638,562	1,301,437	11,939,999	10.9
Total related services .....	122,430	844	123,274	0.7
Combined total.....	26,254,323	2,585,359	28,839,682	9.0

<sup>1</sup>Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Net worth or member and patron equity for all marketing cooperatives totaled nearly \$6.3 billion in 1981 and \$6 billion in 1980. Marketing cooperatives again maintained more than half the total (57.6 percent), while farm supply cooperatives accounted for 42.1 percent. The highest percentage of total assets represented by net worth for all marketing cooperatives (47.5 percent) was for cooperatives primarily marketing other products.<sup>7</sup> The lowest percentage (26.3 percent) was for cooperatives primarily marketing poultry products. Cooperatives classified as farm marketing and farm supply had 37.5 and 38.5 percent, respectively. Net worth represented 37.9 percent of the total assets for all cooperatives.

<sup>7</sup>Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

## **Net Margins**

Total net margins for all cooperatives in 1981 were more than \$1.4 billion, including intercooperative dividends and refunds of \$558 million. This was down 25.9 percent from 1980 net margins of \$1.9 billion. Intercooperative dividends were up 3.1 percent from 1980 dividends of \$541 million.

Marketing cooperatives' net margins (\$775 million) were 10.1 percent below the \$862 million generated in 1980 (table 11). Also, marketing cooperatives' net margins accounted for 53.8 percent of total net margins and 1.1 percent of gross sales volume. Total net margins for marketing cooperatives whose principal products were grain, soybeans, and soybean meal and oil decreased 15.8 percent from 1980 but maintained the largest percentage of marketing cooperative net margins in both 1981 (49.5 percent) and 1980 (52.9 percent).

Farmer cooperatives' net margins from their operations in 1981 totaled \$882 million—down 37.1 percent from \$1.4 billion reported in 1980. Almost 38.8 percent, or \$558 million, of total net margins were generated from other cooperatives, compared with 27.8 percent in 1980. Marketing cooperatives' net margins from other cooperatives increased to 36.9 percent of the total in 1981 from 29.4 percent in 1980. More than half (52.4 percent) of the net margins generated by grain cooperatives came from other cooperatives.

## **Other Service Organizations**

Other types of service cooperatives or organizations were operating in 1981 besides those directly related to marketing and farm supply purchasing. Additional statistical data are shown in table 12.

## **Federal Land Bank Associations**

Federal land bank associations totaled 485 and operated throughout the United States and the associated Commonwealth of Puerto Rico with more than 646,000 memberships. Texas led all States, with 11.8 percent of the total number of associations and 6 percent of total members. California ranked first with 8 percent of total loans made, and Iowa second with 6.8 percent. The associations made loans of more than \$12.2 billion to farm members.



**Table 11—Farmer cooperative net margins<sup>1</sup> by principal products marketed and major function, 1981**

Principal products marketed and major function	Total net margins	Margins from own operations	Margins from other cooperatives
<i>1,000 dollars</i>			
Products marketed:			
Cotton and cotton products .....	111,976	92,114	19,862
Dairy products .....	174,823	121,422	53,402
Fruits & vegetables .....	67,652	62,246	5,406
Grain, soybeans, and soybean meal & oil .....	383,816	182,713	201,103
Livestock, wool, and products .....	9,296	8,638	658
Poultry products .....	-12,203	-16,462	4,259
Rice .....	7,985	7,531	454
Sugar products .....	15,505	15,439	66
Other products <sup>2</sup> .....	15,816	14,906	910
Total farm products .....	774,666	488,546	286,120
Total farm supplies .....	657,288	386,021	271,266
Total related services .....	8,385	7,544	841
Combined total .....	1,440,339	882,111	558,228

<sup>1</sup>Cooperatives operating on a pooling basis are not included.

<sup>2</sup>Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

## Production Credit Associations

Production credit associations, totaling 423, made loans of more than \$35 billion to 520,410 stockholders.

Texas was the leader again with 7.1 percent of total associations. North Carolina led in number of stockholders with 7.7 percent of the total, while California again led in loans made with 9.7 percent.

## Banks for Cooperatives

Thirteen banks for cooperatives made loans of nearly \$24.8 billion to 3,087 agriculturally oriented member cooperatives.

Minnesota again led all States with 11.2 percent of total members; Iowa was second with nearly 9.5 percent. However, Louisiana was the leader in loans made, with 11.9 percent of the total.



## **Rural Credit Unions**

Rural credit unions numbered 981, with 2,450,831 members holding share savings of more than \$3.3 billion in 1981.

California led all States in number of associations with 9.9 percent of total, in members with 23.9 percent of the total, and in share savings with 27.0 percent of the total.

## **Rural Electric Cooperatives**

Rural electric cooperatives, totaling 925, reported 9.1 million consumer members and revenue of more than \$11.5 billion.

Texas led all States, with 8.5 percent of total associations and 9.1 percent of total consumer memberships. However, Kentucky was the leader in revenue with 7.7 percent of the total.

## **Rural Telephone Cooperatives**

Rural telephone cooperatives, totaling 253, with revenues of more than \$389 million, had 959,549 subscriber members. These cooperatives were all financed by the Rural Electrification Administration (REA).

Iowa had the largest number of cooperatives (14.2 percent of the total), while Texas accounted for more subscriber memberships (8.5 percent) and revenue (11.6 percent) than any other State.

## **Dairy Herd Improvement Associations**

Dairy herd improvement associations totaled 1,083. Memberships numbered 40,933, and cows tested totaled nearly 3.4 million.

Minnesota accounted for 74, or 6.8 percent, of the total number of associations. New York (3,101), Pennsylvania (3,957), Minnesota (4,554), and Wisconsin (6,216), combined accounted for 43.6 percent of total members. Nearly 486,000, or more than 14 percent of the cows tested, were in California.

Table 12—Number, participation, and level of activity of service cooperatives by State<sup>1</sup>

State	Federal Land Banks <sup>2</sup>			Production Credit Associations <sup>2</sup>			Banks for Cooperatives <sup>2</sup>	
	Cooperatives	Members	Loans made during year	Cooperatives	Stockholders	Loans made during year	Members	Loans made during year
	No.	No.	1,000 dol.	No.	No.	1,000 dol.	No.	1,000 dol.
Alabama.....	12	15,925	215,605	8	8,793	336,774	25	127,893
Alaska.....	(3)	178	536				2	48,530
Arizona.....	1	733	31,741	2	1,111	392,218	10	25,398
Arkansas.....	11	10,648	220,569	14	12,081	844,473	54	616,882
California.....	25	19,077	978,992	22	17,756	3,401,131	108	2,392,924
Colorado.....	12	13,196	361,246	8	4,381	1,111,674	56	195,078
Connecticut.....	1	2,516	31,986	1	2,576	108,117	1	9
Delaware.....	1	1,001	15,123	1	1,242	42,839	2	2,157
Florida.....	7	11,200	405,904	9	7,154	482,284	42	430,259
Georgia.....	15	28,545	321,361	20	15,320	682,995	13	552,939
Hawaii.....	1	389	24,956	1	375	64,456	2	15,800
Idaho.....	11	11,632	107,783	5	6,739	874,470	22	58,670
Illinois.....	17	29,264	609,512	17	15,689	1,183,580	181	840,656
Indiana.....	23	23,393	417,002	10	25,940	1,401,007	69	915,204
Iowa.....	19	37,378	828,835	16	12,389	2,549,190	291	1,760,786
Kansas.....	16	30,235	554,983	13	4,861	1,096,822	203	2,705,234
Kentucky.....	10	12,944	205,022	9	31,653	841,033	48	306,213
Louisiana.....	9	10,707	350,309	7	10,282	489,120	42	2,956,497
Maine.....	2	810	23,101	2	1,285	47,323	6	9,798
Maryland.....	5	4,560	59,879	5	5,569	97,886	17	29,391
Massachusetts.....							8	182,102
Michigan.....	11	22,440	410,854	8	11,364	709,401	53	284,035
Minnesota.....	17	31,318	754,618	16	14,883	1,882,712	346	2,634,223

Mississippi.....	12	12,083	316,089	10	12,832	563,991	51	340,744
Missouri.....	12	22,182	283,012	12	20,173	905,273	49	1,057,368
Montana.....	10	9,100	122,638	11	7,456	803,357	48	38,214
Nebraska.....	8	21,146	476,613	14	8,846	1,709,128	164	405,106
Nevada.....	1	569	16,700	1	470	87,499		
New Hampshire.....					(4)			
New Jersey.....	3	2,058	26,713	3	1,700	56,099	5	1,383
New Mexico.....	4	2,739	72,732	4	1,321	222,946	15	21,274
New York.....	12	11,205	109,854	12	14,724	296,361	103	551,967
North Carolina.....	15	36,808	315,739	17	39,994	667,283	9	143,655
North Dakota.....	8	13,622	358,253	5	10,819	945,629	208	570,144
Ohio.....	19	16,390	315,536	11	37,587	1,256,319	99	543,167
Oklahoma.....	12	19,563	374,583	14	7,421	836,082	94	505,609
Oregon.....	10	8,001	205,481	8	6,797	725,222	31	373,770
Pennsylvania.....	9	10,514	124,057	9	15,421	293,862	15	140,198
Rhode Island.....								
South Carolina.....	9	17,174	183,241	11	13,903	300,684	3	467
South Dakota.....	7	14,353	164,903	9	5,246	711,610	68	63,860
Tennessee.....	12	17,032	184,145	9	32,460	687,457	69	207,800
Texas.....	57	39,059	408,205	30	20,944	2,203,443	152	1,474,608
Utah.....	3	3,185	82,261	2	1,986	346,578	13	66,064
Vermont.....	2	1,852	20,379	2	2,087	50,932	4	14,101
Virginia.....	8	13,968	149,215	8	12,983	175,446	39	338,780
Washington.....	9	10,135	245,997	6	5,169	615,041	78	558,362
West Virginia.....	2	2,551	20,183	2	2,725	19,581	12	5,879
Wisconsin.....	13	17,468	595,419	17	23,881	1,675,631	140	263,407
Wyoming.....	1	2,591	47,569	1	755	191,943	5	2,777
Puerto Rico.....	1	2,935	13,468	1	1,267	20,177	3	4,193
Grand total.....	485	646,372	12,202,902	423	520,410	35,007,079	3,078	24,783,575

See end of table for footnote references.

Table 12—Number, participation, and level of activity of service cooperatives by State<sup>1</sup>—Continued

State	Rural Credit Unions <sup>5</sup>				Rural Electric Cooperatives <sup>6</sup>				Rural Telephone Cooperatives <sup>6</sup>			
	Co-ops	Members	Share/ savings	1,000 dol.	Co-ops	Members (consumers)	Revenue	1,000 dol.	Co-ops	Members (subscribers)	Revenue	1,000 dol.
	----- No. -----				----- No. -----				----- No. -----			
Alabama.....	14	16,410	19,480		22	294,839	325,154		3	17,459	4,883	
Alaska.....	2	10,330	16,567		13	107,903	132,739		7	19,249	18,073	
Arizona.....	12	16,249	11,453		7	69,140	241,748		1	2,303	2,528	
Arkansas.....	5	2,845	2,628		20	270,792	393,880		2	5,600	2,159	
California.....	97	585,553	896,000		3	10,539	7,191					
Colorado.....	22	24,123	20,030		24	242,422	481,599		7	12,716	6,908	
Connecticut.....	3	3,935	3,005									
Delaware.....	1	1,753	2,506		1	30,942	21,214					
Florida.....	24	59,364	62,537		16	403,805	400,119					
Georgia.....	20	20,231	13,885		43	688,558	784,453		4	18,854	5,974	
Hawaii.....	22	71,817	146,900									
Idaho.....	17	12,680	13,159		9	40,500	25,513		3	8,102	3,177	
Illinois.....	20	42,520	38,718		30	204,263	224,255		7	22,818	7,588	
Indiana.....	21	27,688	80,997		43	309,733	378,904		9	21,999	7,240	
Iowa.....	23	11,376	8,832		52	171,956	254,230		36	49,679	14,690	
Kansas.....	42	82,284	150,901		37	162,569	211,773		11	36,993	17,298	
Kentucky.....	8	11,313	6,979		28	436,796	891,493		8	67,277	18,436	
Louisiana.....	14	14,176	10,973		14	279,439	497,977					
Maine.....	16	19,263	13,961		4	12,093	6,684					
Maryland.....	10	29,526	37,285		2	87,971	89,686					
Massachusetts.....	10	10,657	8,440									
Michigan.....	36	297,651	240,488		15	179,923	141,843					
Minnesota.....	49	108,363	137,349		50	414,474	529,215		19	58,385	20,123	

Mississippi.....	12	5,126	1,573	23	399,755	492,029			
Missouri .....	8	13,088	12,614	47	411,774	659,104	8	43,948	14,735
Montana .....	30	50,225	102,151	25	87,259	66,591	10	34,704	27,674
Nebraska .....				4	11,360	81,213	7	11,901	4,695
Nevada .....	7	21,309	29,483	3	12,527	12,717			
New Hampshire .....	3	1,377	511	1	45,039	29,698			
New Jersey .....	10	11,273	6,614	1	7,872	5,142			
New Mexico.....	6	24,784	68,533	17	116,622	172,069	5	8,589	6,362
New York.....	32	85,569	94,284	4	10,471	3,993			
North Carolina.....	29	32,251	20,192	29	444,066	292,441	9	74,394	17,751
North Dakota.....	48	80,797	162,804	26	92,887	402,506	10	53,317	24,603
Ohio.....	18	36,607	21,037	28	227,711	348,159	6	5,601	1,329
Oklahoma.....	8	7,008	8,330	27	299,399	348,784	2	29,898	17,211
Oregon.....	20	36,206	45,067	14	91,101	76,232	9	29,751	15,115
Pennsylvania .....	26	29,172	32,912	13	151,825	138,347			
Rhode Island.....	3	18,103	59,685						
South Carolina.....	7	11,220	8,953	22	316,591	328,846	6	76,444	29,152
South Dakota.....	19	9,734	10,453	34	103,656	143,259	14	37,044	14,791
Tennessee.....	12	10,516	8,629	20	505,985	443,876	7	79,382	23,287
Texas.....	39	43,099	62,506	79	830,938	754,683	21	81,162	45,181
Utah.....	12	7,955	6,933	5	18,594	89,857	3	6,686	3,246
Vermont.....	14	11,487	8,129	2	15,999	10,418			
Virginia.....	12	17,542	14,097	14	228,454	197,877	5	11,625	3,516
Washington.....	20	91,072	134,603	9	49,731	34,911			
West Virginia .....	3	2,826	1,192	1	4,107	1,880	2	2,136	570
Wisconsin.....	88	307,320	448,929	30	161,001	252,169	11	30,637	10,372
Wyoming.....	7	5,058	3,494	14	63,768	93,626	1	896	445
Puerto Rico .....									
Grand Total .....	981	2,450,831	3,316,781	925	9,127,149	11,520,097	253	959,549	389,112

See end of table for footnote references.



Table 12—Number, participation, and level of activity of service cooperatives by State<sup>1</sup>—Continued

State	Dairy Herd Improvement <sup>7</sup>			State	Dairy Herd Improvement <sup>7</sup>		
	Co-ops <sup>8</sup>	Members (herds)	Cows tested		Co-ops <sup>8</sup>	Members (herds)	Cows tested
Alabama.....	18	218	26,425	Nevada.....	4	39	11,601
Alaska.....	1	1	62	New Hampshire.....	8	229	13,654
Arizona.....	1	127	50,954	New Jersey.....	5	196	14,892
Arkansas.....	31	203	13,387	New Mexico.....	4	64	32,532
California.....	26	1,307	485,765	New York.....	48	3,101	217,185
Colorado.....	6	256	33,590	North Carolina.....	23	656	72,003
Connecticut.....	6	301	23,998	North Dakota.....	22	178	11,280
Delaware.....	1	49	4,434	Ohio.....	17	1,708	107,798
Florida.....	9	77	21,895	Oklahoma.....	20	346	25,700
Georgia.....	30	341	41,903	Oregon.....	10	411	48,815
Hawaii.....	1	8	4,014	Pennsylvania.....	60	3,957	228,100
Idaho.....	28	546	56,814	Rhode Island.....	3	25	1,405
Illinois.....	44	1,280	75,210	South Carolina.....	11	231	31,662
Indiana.....	46	969	59,659	South Dakota.....	17	296	18,937
Iowa.....	53	1,483	76,680	Tennessee.....	42	740	65,691
Kansas.....	43	785	53,992	Texas.....	44	697	89,092
Kentucky.....	36	560	36,420	Utah.....	17	376	42,935
Louisiana.....	14	322	31,898	Vermont.....	22	1,090	61,991
Maine.....	12	462	24,148	Virginia.....	37	981	92,952
Maryland.....	11	661	57,589	Washington.....	17	687	95,455
Massachusetts.....	7	346	19,928	West Virginia.....	8	184	14,462
Michigan.....	1	1,607	130,146	Wisconsin.....	33	6,216	344,758
Minnesota.....	74	4,554	236,638	Wyoming.....	8	28	2,616
Mississippi.....	24	303	29,537	Puerto Rico.....	1	192	35,589
Missouri.....	41	911	61,289	Grand total.....	1,083	40,933	3,382,977
Montana.....	7	113	9,574				
Nebraska.....	31	515	35,923				



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<sup>1</sup>For year ended December 31, 1981.

<sup>2</sup>Farm Credit Administration.

<sup>3</sup>Listed by location of cooperative headquarters.

<sup>4</sup>Served by PCA in Connecticut.

<sup>5</sup>Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)

<sup>6</sup>Rural Electrification Administration, USDA.

<sup>7</sup>Agricultural Research Service, USDA.

<sup>8</sup>Official DHI (includes Dairy Herd Improvement Registry).





## **U.S. Department of Agriculture Agricultural Cooperative Service**

Agricultural Cooperative Service provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The agency (1) helps farmers and other rural residents obtain supplies and services at lower costs and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs.

The agency publishes research and educational materials, and issues *Farmer Cooperatives*. All programs and activities are conducted on a nondiscriminatory basis, without regard to race, creed, color, sex, or national origin.